

GRVER51.SEQ	C	T	T	C	C	G	A	G	C	A	C	T	G	C	G	T	A	A	A	C	A	T	A	G	T	C	A	C	C	T	C	C	C	T	C	A	A	G	C	A	120	
GR6.SEQ	C	T	T	C	C	G	A	G	C	A	C	T	G	C	G	T	A	A	A	C	A	T	A	G	T	C	A	C	C	T	C	C	C	T	C	A	A	G	C	A	120	
GRVER5.SEQ	C	T	T	C	C	G	A	G	C	A	C	T	G	C	G	T	A	A	A	C	A	T	A	G	T	C	A	C	C	T	C	C	C	T	C	A	A	G	C	A	120	
GRVER4.SEQ	C	T	T	C	C	G	A	G	C	A	C	T	G	C	G	T	A	A	A	C	A	T	A	G	T	C	A	C	C	T	C	C	C	T	C	A	A	G	C	A	120	
GRVER3.SEQ	G	T	T	C	C	G	T	G	C	C	T	G	C	G	T	A	A	A	C	A	T	A	G	T	C	A	C	C	T	G	C	T	C	C	T	C	A	A	G	C	T	120
GRVER2.SEQ	G	T	T	C	C	G	T	G	C	T	T	G	C	G	T	A	A	A	C	A	T	T	C	T	C	A	C	C	T	T	G	C	T	C	C	T	C	A	A	G	C	120
GRVER1.SEQ	G	T	T	C	C	G	T	G	C	T	T	G	C	G	T	A	A	A	C	A	T	T	C	T	C	A	C	C	T	T	G	C	T	C	C	T	C	A	A	G	C	120
YG81-6G1.SEQ	C	T	T	C	C	G	T	G	C	C	T	T	G	C	G	A	A	A	C	A	T	T	C	T	C	A	T	T	A	C	C	G	C	A	G	G	C	T	120			
RDVER1.SEQ	G	T	T	T	C	G	C	G	C	C	T	T	G	C	G	C	A	A	G	C	A	C	A	G	C	C	A	T	C	T	G	C	C	A	C	A	G	C	T	120		
RDVER2.SEQ	G	T	T	T	C	G	C	G	C	C	T	T	G	C	G	C	A	A	G	C	A	C	A	G	C	C	A	T	C	T	G	C	C	A	C	A	G	C	T	120		
RDVER3.SEQ	G	T	T	T	C	G	C	G	C	T	T	T	G	C	G	T	A	A	G	C	A	C	T	C	T	A	T	T	T	G	C	T	C	A	A	G	C	T	120			
RDVER4.SEQ	G	T	T	T	C	G	T	G	C	T	T	T	G	C	G	T	A	A	G	C	A	C	T	C	T	C	A	T	T	T	G	C	T	C	A	A	G	C	T	120		
RDVER5.SEQ	G	T	T	T	C	G	T	G	C	T	T	T	G	C	G	C	A	A	G	C	A	C	T	C	T	C	A	T	T	T	G	C	T	C	A	A	G	C	T	120		
RD7.SEQ	G	T	T	T	C	G	T	G	C	T	T	T	G	C	G	C	A	A	G	C	A	C	T	C	T	T	T	T	T	G	C	T	C	A	A	G	C	T	120			
RDVER51.SEQ	G	T	T	T	C	G	T	G	C	T	T	T	G	C	G	C	A	A	G	C	A	C	T	C	T	A	T	T	T	G	C	T	C	A	A	G	C	T	120			
RDVER52.SEQ	G	T	T	T	C	G	T	G	C	T	T	T	G	C	G	C	A	A	G	C	A	C	T	C	T	A	T	T	T	G	C	T	C	A	A	G	C	T	120			
RD1561H9.SEQ	G	T	T	T	C	G	T	G	C	T	T	T	G	C	G	C	A	A	G	C	A	C	T	C	T	A	T	T	T	G	C	T	C	A	A	G	C	T	120			

GRVER51.SEQ C T C G T G G A C G T C G T G G G A G A C G A G A G C C T C T C C T A C A A A G 160
 GR6.SEQ C T C G T G G A C G T C G T G G G A G A C G A G A C C T C T C C T A C A A A G 160
 GRVER5.SEQ C T C G T G G A C G T C G T G G G A G A C G A G A C C T C T C C T A C A A A G 160
 GRVER4.SEQ C T C G T G G A C G T C G T G G G A G A C G A G A C C T C T C T T A C A A A G 160
 GRVER3.SEQ C T C G T G G A C G T C G T G G G T G A C G A G A G C C T G T C T T A C A A A G 160
 GRVER2.SEQ C T G G T C G A T G T G T C G T G G G C G A C G A G A G C T T G T C T T A T A A G G 160
 GRVER1.SEQ C T G T G C G A T G T G T G G G C G A C G A A A G C T T G T C T T A T A A G G 160
 YG91-6G1.SEQ T A G T A G A T G T G G T T G G C G A C G A A T C G C T T C C T A T A A A G 160
 RDVER1.SEQ T T G G T C G A C G T G G T C G G T G A T G A G T C T C T G A G C T A C A A A G 160
 RDVER2.SEQ T T G G T G G A C G T G G T C G G T G A T G A A T C T C T G A G C T A C A A A G 160
 RDVER3.SEQ T T G G T C G A T G T G G T C G G C G A T G A A T C T T T G A G C T A T A A A G 160
 RDVER4.SEQ T T G G T C G A T G T G G T C G G C G A T G A A T C T T T G A G C T A C A A A G 160
 RDVER5.SEQ T T G G T C G A T G T G G T C G G C G A T G A A T C T T T G A G C T A C A A A G 160
 RD7.SEQ T T G G T C G A T G T G G T C G G C G A T G A A T C T T T G A G C T A C A A A G 160
 RDVER51.SEQ T T G G T C G A T G T G G T C G G C G A T G A A T C T T T G A G C T A C A A A G 160
 RDVER52.SEQ T T G G T C G A T G T G G T C G G C G A T G A A T C T T T G A G C T A C A A A G 160
 RD1561H9.SEQ T T G T C G A T G T G G T C G G C G A T G A A T C T T T G A G C T A C A A A G 160

GRVER51.SEQ A A T T T T T C G A A G C T A C T G T G C T G T T G C C C A A A G C C T C C A 200
 GR6.SEQ A A T T T T T C G A A G C T A C T G T G C T G T T G G C C A A A G C C T C C A 200
 GRVER5.SEQ A A T T T T T C G A A G C T A C T G T G C T G T T G G C C A A A G C C T C C A 200
 GRVER4.SEQ A A T T T T T C G A A G C T A C T G T G C T G T T G G C C A A A G C C T C C A 200
 GRVER3.SEQ A A T T T T T C G A A G C T A C T G T G C T G T T G G C C A A A G C C T G C A 200
 GRVER2.SEQ A A T T T T T C G A A G C T A C T G T C C T G T T G G C C A A T C T C T G C A 200
 GRVER1.SEQ A G T T T T T C G A A G C T A C T G T C C T G T T G G C C A G T C T C T G C A 200
 YG91-6G1.SEQ A G T T T T T T G A A G C G A C A G T C C T C C T A G C G C A A A G T C T C C A 200
 RDVER1.SEQ A A T T C T T T T A G G C A A C C G T G T T G C T G G C T C A A A G C T T G C A 200
 RDVER2.SEQ A G T T C T T T T A G G C A A C C G T G T T G C T G G C T C A A A G C T T G C A 200
 RDVER3.SEQ A G T T T T T T A G G C A A C C G T C T T G C T G G C T C A G T C T T T G C A 200
 RDVER4.SEQ A G T T T T T T A G G C A A C C G T C T T G C T G G C T C A G T C C T T G C A 200
 RDVER5.SEQ A G T T T T T T A G G C A A C C G T C T T G C T G G C T C A G T C C T C C A 200
 RD7.SEQ A G T T T T T T A G G C A A C C G T C T T G C T G G C T C A G T C C T C C A 200
 RDVER51.SEQ A G T T T T T T A G G C A A C C G T C T T G C T G G C T C A G T C C T C C A 200
 RDVER52.SEQ A G T T T T T T A G G C A A C C G T C T T G C T G G C T C A G T C C T C C A 200
 RD1561H9.SEQ A G T T T T T T A G G C A A C C G T C T T G C T G G C T C A G T C C T C C A 200

GRVER51.SEQ T A A T T G T G G C T A C A A A A T G A A C G A T G T G T G A G C A T T T G T 240
 GR6.SEQ T A A T T G T G G G T A C A A A A T G A A C G A T G T G T G A G C A T T T G T 240
 GRVER5.SEQ T A A T T G T G G G T A C A A A A T G A A C G A T G T G G T G A G C A T T T G T 240
 GRVER4.SEQ T A A T T G T G G C T A C A A A A T G A A C G A T G T G G T G A G C A T T T G T 240
 GRVER3.SEQ T A A T T G T G G T T A C A A A A T G A A C G A T G T G G T G A G C A T C T G T 240
 GRVER2.SEQ T A A T T G C G G T T A C A A A A T G A A C G A T G T G G T C A G C A T T T G T 240
 GRVER1.SEQ T A A T T G C G G T T A C A A A A T G A A C G A T G T G T C A G C A T T T G T 240
 YG91-6G1.SEQ C A A T T G T G G A T A C A A G A T G A A T G A T G A G T G C A T C T G C 240
 RDVER1.SEQ C A A C T G T G G C T A T A A G A T G A A T G A C G T G T G C T A T C T G C 240
 RDVER2.SEQ C A A C T G T G G C T A T A A G A T G A A T G A C G T G T G C T A T C T G C 240
 RDVER3.SEQ T A A T T G C G G C T A C A A G A T G A A C G A C G T C G T C T A T T T G T 240
 RDVER4.SEQ T A A T T G T G G C T A C A A G A T G A A C G A C G T C G T C T C A T T T G T 240
 RDVER5.SEQ C A A T T G T G G C T A C A A G A T G A A C G A C G T C G T T A G T A T C T G 240
 RD7.SEQ C A A T T G T G G C T A C A A G A T G A A C G A C G T C G T T A G T A T C T G 240
 RDVER51.SEQ C A A T T G T G G C T A C A A G A T G A A C G A C G T C G T T A G T A T C T G 240
 RDVER52.SEQ C A A T T G T G G C T A C A A G A T G A A C G A C G T C G T T A G T A T C T G 240
 RD1561H9.SEQ C A A T T G T G G C T A C A A G A T G A A C G A C G T C G T T A G T A T C T G 240

FIG. 2 (cont'd)

GRVER51.SEQ	G	C	T	G	A	G	A	A	T	A	A	C	A	C	T	C	G	C	T	T	T	T	A	T	T	C	C	T	G	T	A	A	T	C	G	C	T	G	280		
GR6.SEQ	G	C	T	G	A	G	A	A	T	A	A	C	A	C	T	C	G	C	T	T	T	T	A	T	T	C	C	T	G	T	A	A	T	C	G	C	T	G	280		
GRVER5.SEQ	G	C	T	G	A	G	A	A	T	A	A	C	A	C	T	C	G	C	T	T	T	T	A	T	T	C	C	T	G	T	A	A	T	C	G	C	T	G	280		
GRVER4.SEQ	G	C	T	G	A	G	A	A	T	A	A	C	A	C	T	C	G	C	T	T	T	T	A	T	T	C	C	T	G	T	A	A	T	C	G	C	T	G	280		
GRVER3.SEQ	G	C	T	G	A	G	A	A	T	A	A	C	A	C	C	C	G	C	T	T	T	T	T	A	T	T	C	C	C	T	G	T	G	A	T	T	C	G	280		
GRVER2.SEQ	G	C	T	G	A	G	A	A	T	A	A	C	A	C	C	C	G	C	T	T	T	T	T	C	A	T	C	C	A	G	T	G	A	T	T	C	G	280			
GRVER1.SEQ	G	C	T	G	A	G	A	A	T	A	A	C	A	C	C	C	G	C	T	T	T	T	T	C	A	T	C	C	A	G	T	G	A	T	T	C	G	280			
YG81-6G1.SEQ	G	C	G	A	G	A	A	T	A	A	T	A	C	A	A	G	A	T	T	T	T	T	A	T	T	C	C	G	T	A	T	T	C	A	G	C	G	280			
RDVER1.SEQ	G	C	C	G	A	A	A	A	C	A	A	T	A	C	T	C	G	T	T	T	C	T	T	T	A	T	T	C	T	G	T	C	A	T	C	G	C	G	280		
RDVER2.SEQ	G	C	C	G	A	A	A	A	C	A	A	T	A	C	T	C	G	T	T	T	C	T	T	T	A	T	T	C	T	G	T	C	A	T	C	G	C	G	280		
RDVER3.SEQ	G	C	C	G	A	A	A	A	C	A	A	T	A	C	C	G	T	T	T	C	T	T	C	A	T	T	C	A	G	T	C	A	T	C	G	C	G	280			
RDVER4.SEQ	G	C	A	G	A	A	A	A	C	A	A	T	A	C	C	G	T	T	T	C	T	T	C	A	T	T	C	A	G	T	C	A	T	C	G	C	G	280			
RDVER5.SEQ	G	C	T	G	A	A	A	A	C	A	A	T	A	C	C	G	T	T	T	C	T	T	C	A	T	T	C	A	G	T	C	A	T	C	G	C	G	280			
RD7.SEQ	G	C	T	G	A	A	A	A	C	A	A	T	A	C	C	G	T	T	T	C	T	T	C	A	T	T	C	A	G	T	C	A	T	C	G	C	G	280			
RDVER51.SEQ	G	C	T	G	A	A	A	A	C	A	A	T	A	C	C	G	T	T	T	C	T	T	C	A	T	T	C	A	G	T	C	A	T	C	G	C	G	280			
RDVER52.SEQ	G	C	T	G	A	A	A	A	C	A	A	T	A	C	C	G	T	T	T	C	T	T	C	A	T	T	C	A	G	T	C	A	T	C	G	C	G	280			
RD1561H9.SEQ	G	C	T	G	A	A	A	A	C	A	A	T	A	C	C	G	T	T	T	C	T	T	C	A	T	T	C	A	G	T	C	A	T	C	G	C	G	280			
GRVER51.SEQ	C	T	T	G	G	T	A	C	A	T	C	G	G	C	A	T	G	A	T	T	G	T	C	G	C	C	C	T	G	T	G	A	A	T	G	A	A	T	C	320	
GR6.SEQ	C	T	T	G	G	T	A	C	A	T	C	G	G	C	A	T	G	A	T	T	G	T	C	G	C	C	C	T	G	T	G	A	A	T	G	A	A	T	C	320	
GRVER5.SEQ	C	T	T	G	G	T	A	C	A	T	C	G	G	C	A	T	G	A	T	T	G	T	C	G	C	C	C	T	G	T	G	A	A	T	G	A	A	T	C	320	
GRVER4.SEQ	C	T	T	G	G	T	A	C	A	T	C	G	G	C	A	T	G	A	T	T	G	T	C	G	C	C	C	T	G	T	G	A	A	T	G	A	A	T	C	320	
GRVER3.SEQ	C	T	T	G	G	T	A	C	A	T	C	G	G	C	A	T	G	A	T	T	G	T	C	G	C	C	C	T	G	T	G	A	A	T	G	A	A	T	C	320	
GRVER2.SEQ	C	T	T	G	G	T	A	C	A	T	C	G	G	C	A	T	G	A	T	T	G	T	C	G	C	C	C	T	G	T	G	A	A	T	G	A	A	T	C	320	
GRVER1.SEQ	C	T	T	G	G	T	A	C	A	T	C	G	G	C	A	T	G	A	T	T	G	T	C	G	C	C	C	T	G	T	G	A	A	T	G	A	A	T	C	320	
YG81-6G1.SEQ	C	T	T	G	G	T	A	T	T	G	G	T	A	T	G	A	T	G	A	T	G	T	A	G	C	A	C	C	T	G	T	T	A	A	T	G	A	A	G	320	
RDVER1.SEQ	C	T	T	G	G	T	A	T	T	T	G	G	T	A	T	G	A	T	C	G	T	G	G	C	T	C	A	G	T	C	A	A	C	G	A	G	A	G	320		
RDVER2.SEQ	C	T	T	G	G	T	A	T	T	T	G	G	T	A	T	G	A	T	C	G	T	G	G	C	T	C	A	G	T	C	A	A	C	G	A	G	A	G	320		
RDVER3.SEQ	C	T	T	G	G	T	A	T	T	C	G	G	T	A	T	G	A	T	C	G	T	G	G	C	T	C	A	G	T	C	A	A	C	G	A	G	A	G	320		
RDVER4.SEQ	C	A	T	G	G	T	A	T	T	C	G	G	T	A	T	G	A	T	C	G	T	G	G	C	T	C	A	G	T	C	A	A	C	G	A	G	A	G	320		
RDVER5.SEQ	C	A	T	G	G	T	A	T	T	C	G	G	T	A	T	G	A	T	C	G	T	G	G	C	T	C	A	G	T	C	A	A	C	G	A	G	A	G	320		
RD7.SEQ	C	A	T	G	G	T	A	T	T	C	G	G	T	A	T	G	A	T	C	G	T	G	G	C	T	C	A	G	T	C	A	A	C	G	A	G	A	G	320		
RDVER51.SEQ	C	A	T	G	G	T	A	T	T	C	G	G	T	A	T	G	A	T	C	G	T	G	G	C	T	C	A	G	T	C	A	A	C	G	A	G	A	G	320		
RDVER52.SEQ	C	A	T	G	G	T	A	T	T	C	G	G	T	A	T	G	A	T	C	G	T	G	G	C	T	C	A	G	T	C	A	A	C	G	A	G	A	G	320		
RD1561H9.SEQ	C	A	T	G	G	T	A	T	T	C	G	G	T	A	T	G	A	T	C	G	T	G	G	C	T	C	A	G	T	C	A	A	C	G	A	G	A	G	320		
GRVER51.SEQ	T	T	A	C	A	T	C	C	C	A	G	A	T	G	A	G	C	T	G	T	G	A	A	G	G	T	T	A	T	G	G	G	T	A	T	G	A	G	360		
GR6.SEQ	T	T	A	C	A	T	C	C	C	A	G	A	T	G	A	G	C	T	G	T	G	A	A	G	G	T	T	A	T	G	G	G	T	A	T	G	A	G	360		
GRVER5.SEQ	T	T	A	C	A	T	C	C	C	A	G	A	T	G	A	G	C	T	G	T	G	A	A	G	G	T	T	A	T	G	G	G	T	A	T	G	A	G	360		
GRVER4.SEQ	T	T	A	C	A	T	C	C	C	A	G	A	T	G	A	G	C	T	G	T	G	A	A	G	G	T	T	A	T	G	G	G	T	A	T	G	A	G	360		
GRVER3.SEQ	T	T	A	C	A	T	C	C	C	A	G	A	T	G	A	G	T	T	G	T	G	A	A	G	G	T	T	A	T	G	G	G	T	A	T	G	A	G	360		
GRVER2.SEQ	T	T	A	T	A	T	C	C	C	A	G	A	T	G	A	G	T	T	G	T	G	C	A	A	G	G	T	C	A	T	G	G	G	T	A	T	G	A	G	360	
GRVER1.SEQ	T	T	A	T	A	T	C	C	C	A	G	A	T	G	A	G	T	T	T	G	T	G	C	A	A	G	G	T	C	A	T	G	G	G	T	A	T	G	A	G	360
YG81-6G1.SEQ	T	T	A	C	A	T	C	C	C	A	G	A	T	G	A	A	C	T	C	T	G	T	A	A	G	G	T	T	A	T	G	G	G	T	A	T	C	G	360		
RDVER1.SEQ	C	T	A	C	A	T	T	C	C	T	G	A	T	G	A	A	C	T	G	T	A	A	A	G	T	G	A	T	G	G	G	C	A	T	C	T	C	T	360		
RDVER2.SEQ	C	T	A	C	A	T	T	C	C	T	G	A	T	G	A	A	C	T	G	T	A	A	A	G	T	G	A	T	G	G	G	C	A	T	C	T	C	T	360		
RDVER3.SEQ	C	T	A	C	A	T	T	C	C	T	G	A	T	G	A	A	C	T	G	T	A	A	A	G	T	C	A	T	G	G	G	T	A	T	C	T	C	T	360		
RDVER4.SEQ	C	T	A	C	A	T	T	C	C	G	A	C	G	A	A	C	T	G	T	A	A	A	G	T	C	A	T	G	G	G	T	A	T	C	T	C	T	360			
RDVER5.SEQ	C	T	A	C	A	T	T	C	C	G	A	C	G	A	A	C	T	G	T	A	A	A	G	T	C	A	T	G	G	G	T	A	T	C	T	C	T	360			
RD7.SEQ	C	T	A	C	A	T	T	C	C	G	A	C	G	A	A	C	T	G	T	A	A	A	G	T	C	A	T	G	G	G	T	A	T	C	T	C	T	360			
RDVER51.SEQ	C	T	A	C	A	T	T	C	C	G	A	C	G	A	A	C	T	G	T	A	A	A	G	T	C	A	T	G	G	G	T	A	T	C	T	C	T	360			
RDVER52.SEQ	C	T	A	C	A	T	T	C	C	G	A	C	G	A	A	C	T	G	T	A	A	A	G	T	C	A	T	G	G	G	T	A	T	C	T	C	T	360			
RD1561H9.SEQ	C	T	A	C	A	T	T	C	C	G	A	C	G	A	A	C	T	G	T	A	A	A	G	T	C	A	T	G	G	G	T	A	T	C	T	C	T	360			

FIG. 2 (cont'd)

GRVER51.SEQ	A	A	A	C	T	C	A	A	A	T	C	G	T	C	T	T	T	A	C	T	A	C	A	A	A	A	C	A	T	C	T	T	G	A	A	T	A	400				
GR6.SEQ	A	A	A	C	T	C	A	A	A	T	C	G	T	C	T	T	T	A	C	T	A	C	A	A	A	A	A	C	A	T	C	T	T	G	A	A	T	A	400			
GRVER5.SEQ	A	A	A	C	T	C	A	A	A	T	C	G	T	C	T	T	T	A	C	T	A	C	A	A	A	A	A	A	C	A	T	C	T	T	G	A	A	T	A	400		
GRVER4.SEQ	A	A	A	C	T	C	A	A	A	T	C	G	T	C	T	T	T	A	C	T	A	C	A	A	A	A	A	A	A	C	A	T	C	T	T	G	A	A	T	A	400	
GRVER3.SEQ	A	A	A	C	T	C	A	A	A	T	C	G	T	C	T	T	T	A	C	T	A	C	A	A	A	A	A	A	A	C	A	T	C	T	T	G	A	A	T	A	400	
GRVER2.SEQ	A	A	A	C	T	C	A	A	A	T	C	G	T	G	T	T	T	A	C	T	A	C	A	A	A	A	A	A	A	C	A	T	C	T	T	G	A	A	T	A	400	
GRVER1.SEQ	A	A	A	C	T	C	A	A	A	T	C	G	T	G	T	T	T	A	C	T	A	C	A	A	A	A	A	A	A	C	A	T	C	T	T	G	A	A	T	A	400	
YG81-6G1.SEQ	A	A	C	C	A	C	A	A	A	T	A	G	T	T	T	T	T	A	C	G	A	C	A	A	A	A	A	A	A	C	A	T	T	T	A	A	T	A	400			
RDVER1.SEQ	A	A	G	C	C	A	C	A	G	A	T	T	G	T	C	T	T	C	A	C	C	A	C	T	A	A	A	A	A	T	A	T	C	T	T	G	A	A	C	A	400	
RDVER2.SEQ	A	A	G	C	C	A	C	A	G	A	T	T	G	T	C	T	T	C	A	C	C	A	C	T	A	A	A	A	A	T	A	T	C	T	T	G	A	A	C	A	400	
RDVER3.SEQ	A	A	G	C	C	A	C	A	G	A	T	T	G	T	C	T	T	C	A	C	C	A	C	T	A	A	A	A	A	T	A	T	C	T	T	G	A	A	C	A	400	
RDVER4.SEQ	A	A	G	C	C	A	C	A	G	A	T	T	G	T	C	T	T	C	A	C	C	A	C	T	A	A	A	A	A	T	A	T	C	T	T	G	A	A	C	A	400	
RDVER5.SEQ	A	A	G	C	C	A	C	A	G	A	T	T	G	T	C	T	T	C	A	C	C	A	C	T	A	A	A	A	A	T	A	T	C	T	T	G	A	A	C	A	400	
RD7.SEQ	A	A	G	C	C	A	C	A	G	A	T	T	G	T	C	T	T	C	A	C	C	A	C	T	A	A	A	A	A	T	A	T	C	T	T	G	A	A	C	A	400	
RDVER51.SEQ	A	A	G	C	C	A	C	A	G	A	T	T	G	T	C	T	T	C	A	C	C	A	C	T	A	A	A	A	A	T	A	T	C	T	T	G	A	A	C	A	400	
RDVER52.SEQ	A	A	G	C	C	A	C	A	G	A	T	T	G	T	C	T	T	C	A	C	C	A	C	T	A	A	A	A	A	T	A	T	C	T	T	G	A	A	C	A	400	
RD1561H9.SEQ	A	A	G	C	C	A	C	A	G	A	T	T	G	T	C	T	T	C	A	C	C	A	C	T	A	A	A	A	A	T	A	T	C	T	T	G	A	A	C	A	400	
GRVER51.SEQ	A	G	G	T	C	T	T	G	G	A	A	G	T	C	C	A	G	T	C	T	C	G	T	A	C	T	A	A	C	T	T	C	A	A	A	C	G	440				
GR6.SEQ	A	G	G	T	C	T	T	G	G	A	A	G	T	C	C	A	G	T	C	T	C	G	T	A	C	T	A	A	C	T	T	C	A	A	A	C	G	440				
GRVER5.SEQ	A	G	G	T	C	T	T	G	G	A	A	G	T	C	C	A	G	T	C	T	C	G	T	A	C	T	A	A	C	T	T	C	A	A	A	C	G	440				
GRVER4.SEQ	A	G	G	T	C	T	T	G	G	A	A	G	T	C	C	A	G	T	C	T	C	G	T	A	C	T	A	A	C	T	T	C	A	A	A	C	G	440				
GRVER3.SEQ	A	G	G	T	C	T	T	G	G	A	A	G	T	C	C	A	G	T	C	T	C	G	T	A	C	T	A	A	A	T	T	T	C	A	T	C	A	A	A	C	G	440
GRVER2.SEQ	A	G	G	T	C	T	T	G	G	A	A	G	T	C	C	A	G	T	C	T	C	G	T	A	C	T	A	A	A	C	T	T	C	A	T	C	A	A	G	C	440	
GRVER1.SEQ	A	A	G	T	C	T	T	G	G	A	A	G	T	C	C	A	G	T	C	T	C	G	T	A	C	T	A	A	A	C	T	T	C	A	T	C	A	A	G	C	440	
YG81-6G1.SEQ	A	G	G	T	A	T	T	T	G	G	A	G	G	T	A	C	A	G	A	G	C	A	G	A	C	T	A	A	T	T	T	C	A	T	A	A	A	A	G	440		
RDVER1.SEQ	A	G	G	T	G	C	T	T	G	G	A	G	G	T	C	C	A	A	A	G	C	G	C	A	C	C	A	A	T	T	T	A	T	T	A	A	A	C	G	440		
RDVER2.SEQ	A	A	G	T	G	C	T	T	T	G	G	A	G	T	C	C	A	A	A	G	C	G	C	A	C	C	A	A	C	T	T	T	A	T	T	A	A	A	C	G	440	
RDVER3.SEQ	A	A	G	T	G	C	T	T	T	G	G	A	A	G	T	C	C	A	A	A	G	C	G	C	A	C	C	A	A	C	T	T	T	A	T	T	A	A	G	C	G	440
RDVER4.SEQ	A	A	G	T	C	C	T	T	G	G	A	A	G	T	C	C	A	A	A	G	C	G	C	A	C	C	A	A	C	T	T	T	A	T	T	A	A	G	C	G	440	
RDVER5.SEQ	A	A	G	T	C	C	T	T	G	G	A	A	G	T	C	C	A	A	A	G	C	G	C	A	C	C	A	A	C	T	T	T	A	T	T	A	A	G	C	G	440	
RD7.SEQ	A	A	G	T	C	C	T	T	G	G	A	A	G	T	C	C	A	A	A	G	C	G	C	A	C	C	A	A	C	T	T	T	A	T	T	A	A	G	C	G	440	
RDVER51.SEQ	A	A	G	T	C	C	T	T	G	G	A	A	G	T	C	C	A	A	A	G	C	G	C	A	C	C	A	A	C	T	T	T	A	T	T	A	A	G	C	G	440	
RDVER52.SEQ	A	A	G	T	C	C	T	T	G	G	A	A	G	T	C	C	A	A	A	G	C	G	C	A	C	C	A	A	C	T	T	T	A	T	T	A	A	G	C	G	440	
RD1561H9.SEQ	A	A	G	T	C	C	T	T	G	G	A	A	G	T	C	C	A	A	A	G	C	G	C	A	C	C	A	A	C	T	T	T	A	T	T	A	A	G	C	G	440	
GRVER51.SEQ	C	A	T	C	A	T	T	A	T	T	C	T	G	G	A	T	A	C	C	G	T	C	G	G	A	A	A	A	C	A	T	C	C	A	C	G	C	T	G	T	480	
GR6.SEQ	C	A	T	C	A	T	T	A	T	T	C	T	G	G	A	T	A	C	C	G	T	C	G	G	A	A	A	A	C	A	T	C	C	A	C	G	G	C	T	G	T	480
GRVER5.SEQ	C	A	T	C	A	T	T	A	T	T	C	T	G	G	A	T	A	C	C	G	T	C	G	G	A	A	A	A	C	A	T	C	C	A	C	G	G	C	T	G	T	480
GRVER4.SEQ	C	A	T	C	A	T	T	A	T	T	C	T	G	G	A	T	A	C	C	G	T	C	G	G	A	A	A	A	C	A	T	C	C	A	C	G	G	C	T	G	T	480
GRVER3.SEQ	C	A	T	T	A	T	T	A	T	T	C	T	G	G	A	T	A	C	C	G	T	C	G	A	A	A	A	A	C	A	T	C	C	A	C	G	G	C	T	G	T	480
GRVER2.SEQ	C	A	T	T	A	T	C	A	T	T	C	T	G	G	A	T	A	C	C	G	T	C	G	A	G	A	A	T	A	T	C	C	A	C	G	G	C	T	G	T	480	
GRVER1.SEQ	C	A	T	T	A	T	C	A	T	T	C	T	G	G	A	T	A	C	C	G	T	C	G	A	G	A	A	T	A	T	C	C	A	C	G	G	C	T	G	T	480	
YG81-6G1.SEQ	A	T	C	A	T	C	A	T	A	C	T	T	G	A	T	A	C	T	G	T	A	C	T	G	A	A	A	A	A	C	A	T	A	C	A	C	G	G	T	T	G	480
RDVER1.SEQ	T	A	T	C	A	T	T	A	T	C	T	T	G	A	C	A	C	A	C	T	G	T	G	G	A	A	A	A	C	A	T	C	A	T	G	G	T	T	G	C	480	
RDVER2.SEQ	T	A	T	C	A	T	T	A	T	C	T	T	G	A	C	A	C	A	C	T	G	T	G	G	A	A	A	A	C	A	T	C	A	T	G	G	T	T	G	C	480	
RDVER3.SEQ	T	A	T	C	A	T	C	A	T	C	T	T	G	A	C	A	C	A	C	T	G	T	G	A	G	A	A	T	A	T	C	A	C	G	G	T	T	G	C	480		
RDVER4.SEQ	T	A	T	C	A	T	C	A	T	C	T	T	G	A	C	A	C	A	C	T	G	T	G	A	G	A	A	T	A	T	C	A	C	G	G	T	T	G	C	480		
RDVER5.SEQ	T	A	T	C	A	T	C	A	T	C	T	T	G	A	C	A	C	A	C	T	G	T	G	A	G	A	A	T	A	T	C	A	C	G	G	T	T	G	C	480		
RD7.SEQ	T	A	T	C	A	T	C	A	T	C	T	T	G	A	C	A	C	A	C	T	G	T	G	A	G	A	A	T	A	T	C	A	C	G	G	T	T	G	C	480		
RDVER51.SEQ	T	A	T	C	A	T	C	A	T	C	T	T	G	A	C	A	C	A	C	T	G	T	G	A	G	A	A	T	A	T	C	A	C	G	G	T	T	G	C	480		
RDVER52.SEQ	T	A	T	C	A	T	C	A	T	C	T	T	G	A	C	A	C	A	C	T	G	T	G	A	G	A	A	T	A	T	C	A	C	G	G	T	T	G	C	480		
RD1561H9.SEQ	T	A	T	C	A	T	C	A	T	C	T	T	G	A	C	A	C	A	C	T	G	T	G	A	G	A	A	T	A	T	C	A	C	G	G	T	T	G	C	480		

FIG. 2 (cont'd)

GRVER51.SEQ G A G A G C C T C C C T A A C T T C A T C T C T C G T T A C A G C G A T G G T A 520
 GR6.SEQ G A G A G C C T C C C T A A C T T C A T C T C T C G T T A C A G C G A T G G T A 520
 GRVER5.SEQ G A G A G C C T C C C T A A C T T C A T C T C T C G T T A C A G C G A T G G T A 520
 GRVER4.SEQ G A G A G C C T G C C T A A C T T C A T C T C T C G T T A C A G C G A T G G T A 520
 GRVER3.SEQ G A G A G C T T G C C T A A C T T T A T C T C T C G T T A C A G C G A T G G T A 520
 GRVER2.SEQ G A G A G C T T G C C T A A A C T T T A T T C T C G T T A T A G C G A C G G T A 520
 GRVER1.SEQ G A A A G C T T G C C T A A A C T T T A T T T C T C G T T A T A G C G A C G G T A 520
 YG81-6G1.SEQ G A A A G T C T T G C C A A T T T T A T T T C T C G T T A T T C G G A T G G A 520
 RDVER1.SEQ G A G T C T C T G C C T A A T T T C A T C A G C G C T A C T C T G A T G G C A 520
 RDVER2.SEQ G A A T C T C T G C C T A A T T T C A T C A G C G C T A C T C T G A T G G C A 520
 RDVER3.SEQ G A A T C T C T G C C T A A T T T C A T T A G C G C T A T T C T G A C G G C A 520
 RDVER4.SEQ G A A T C T T T G C C T A A T T T T A T T A G C G C T A T T C A G A C G G G A 520
 RDVER5.SEQ G A A T C T T T G C C T A A T T T C A T C T C T C G C T A T T C A G A C G G C A 520
 RD7.SEQ G A A T C T T T G C C T A A T T T C A T C T C T C G C T A T T C A G A C G G C A 520
 RDVER51.SEQ G A A T C T T T G C C T A A T T T C A T C T C T C G C T A T T C A G A C G G C A 520
 RDVER52.SEQ G A A T C T T T G C C T A A T T T C A T C T C T C G C T A T T C A G A C G G C A 520
 RD1561H9.SEQ G A A T C T T T G C C T A A T T T C A T C T C T C G C T A T T C A G A C G G C A 520

GRVER51.SEQ A T A T C G C T A A T T T C A A G C C C T T G C A T T T T G A T C C A G T C G A 560
 GR6.SEQ A T A T C G C T A A T T T C A A G C C C T T G C A T T T T G A T C C A G T C G A 560
 GRVER5.SEQ A T A T C G C T A A T T T C A A G C C C T T G C A T T T T G A T C C A G T C G A 560
 GRVER4.SEQ A T A T C G C T A A T T T C A A A C C A C T T G C A T T T T G A T C C A G T C G A 560
 GRVER3.SEQ A T A T C G C T A A T T T C A A G C C A C T T G C A T T T T G A T C C A G T C G A 560
 GRVER2.SEQ A T A T C G C T A A C T T C A A G C C C T C T G C A T T T T G A T C C A G T G G A 560
 GRVER1.SEQ A T A T C G C T A A C T T C A A G C C C T C T G C A T T T T G A T C C A G T G G A 560
 YG81-6G1.SEQ A T A T T G C C A A C T T C A A A C C T T T A C A T T T C G A T C C T G T T G A 560
 RDVER1.SEQ A C A T T G C C A A T T T T A A A C C A T T G C A C T T T C G A C C C T G T G A 560
 RDVER2.SEQ A C A T T G C C A A T T T T A A A C C A T T G C A C T T C G A C C C T G T G A 560
 RDVER3.SEQ A C A T C G C C A A C T T T A A A C C C T T G C A T T T C G A C C C T G T G A 560
 RDVER4.SEQ A C A T G C C C A A C T T T A A G C C T C T T G C A T T T C G A C C C T G T G A 560
 RDVER5.SEQ A C A T C G C A A A C T T T A A A C C A C T T C A C T T C G A C C C T G T G A 560
 RD7.SEQ A C A T C G C A A A C T T T A A A C C A C T T C A C T T C G A C C C T G T G A 560
 RDVER51.SEQ A C A T C G C A A A C T T T A A A C C A C T C A C T T C G A C C C T G T G A 560
 RDVER52.SEQ A C A T C G C A A A C T T T A A A C C A C T C A C T T C G A C C C T G T G A 560
 RD1561H9.SEQ A C A T C G C A A A C T T T A A A C C A C T C A C T T C G A C C C T G T G A 560

GRVER51.SEQ G C A A G T G G C C G C T A T T T T G T G C T C C T C C G G C A C A C T G G T 600
 GR6.SEQ G C A A G T G G C C G C T A T T T T G T G C T C C T C C G G C A C A C T G G T 600
 GRVER5.SEQ G C A A G T G G C C G C T A T T T T G T G C T C C T C C G G C A C A C T G G T 600
 GRVER4.SEQ G C A A G T G G C C G C T A T T T T G T G C T C T C C G G C A C A C T G G T 600
 GRVER3.SEQ G C A G G T G G C C G C A T T T T G T G C T C T C T G G C A C A C T G G T 600
 GRVER2.SEQ G C A A G T C G C C G C T A T T T T G T G C T C T A G C G G C A C A C G G T 600
 GRVER1.SEQ G C A A G T C G C C G C T A T T T T G T G C T C T A G C G G C A C A C G G T 600
 YG81-6G1.SEQ G C A A G T G G C A G C T A T C T T A T G T C G T C A G G C A C T A C T G G A 600
 RDVER1.SEQ A C A G G T G G C T G C C A T C C T G T G T A G C T C T G G T A C C A C T G G C 600
 RDVER2.SEQ A C A G G T G G C T G C C A T C C T G T G T A G C T C T G G T A C T A C T G G C 600
 RDVER3.SEQ A C A A G T G G C T G C T A T C C T G T G T A G C A G C G G T A C T A C T G G C 600
 RDVER4.SEQ A C A A G T T G C T G C A A T C C T G T G T A G C A G C G G T A C T A C T G G A 600
 RDVER5.SEQ A C A A G T T G C A G C C A T T C T G T G T A G C A G C G G T A C T A C T G G A 600
 RD7.SEQ A C A A G T T G C A G C C A T T C T G T G T A G C A G C G G T A C T A C T G G A 600
 RDVER51.SEQ A C A A G T T G C A G C C A T T C T G T G T A G C A G C G G T A C T A C T G G A 600
 RDVER52.SEQ A C A A G T T G C A G C C A T T C T G T G T A G C A G C G G T A C T A C T G G A 600
 RD1561H9.SEQ A C A A G T T G C A G C C A T T C T G T G T A G C A G C G G T A C T A C T G G A 600

FIG. 2 (cont'd)

```

GRVER51.SEQ T T G C C T A A A G G T G T C A T G C A G A C T C A C C A G A A T A T C T G T G 640
GR6.SEQ T T G C C T A A A G G T G T C A T G C A G A C T C A C C A G A A T A T C T G T G 640
GRVER5.SEQ T T G C C T A A A G G T G T C A T G C A G A C T C A C C A G A A T A T C T G T G 640
GRVER4.SEQ T T G C C T A A A G G T G T C A T G C A G A C T C A C C A G A A T A T C T G T G 640
GRVER3.SEQ T T G C C T A A A G G T G T C A T G C A G A C T C A C C A G A A T A T C T G T G 640
GRVER2.SEQ C T G C C T A A A G G T G T G A T G C A G A C T C A C C A A A A T A T C T G T G 640
GRVER1.SEQ C T G C C T A A A G G T G T G A T G C A G A C T C A C C A A A A T A T C T G T G 640
YG81-6G1.SEQ T A C C G A A A G G T G T A A T G C A A A C T C A C C A A A A T A T T T G T G 640
RDVER1.SEQ T T G C C A A A G G G T G T C A T G C A A A C C C A T C A G A A C A T T T G C G 640
RDVER2.SEQ T T G C C A A A G G G T G T C A T G C A A A C C C A T C A G A A C A T T T G C G 640
RDVER3.SEQ C T C C C A A A G G G C G T C A T G C A G A C C C A T C A A A A C A T T T G C G 640
RDVER4.SEQ C T C C C A A A G G G A G T C A T G C A G A C C C A T C A A A A C A T T T G C G 640
RDVER5.SEQ C T C C C A A A G G G A G T C A T G C A G A C C C A T C A A A A C A T T T G C G 640
RD7.SEQ C T C C C A A A G G G A G T C A T G C A G A C C C A T C A A A A C A T T T G C G 640
RDVER51.SEQ C T C C C A A A G G G A G T C A T G C A G A C C C A T C A A A A C A T T T G C G 640
RDVER52.SEQ C T C C C A A A G G G A G T C A T G C A G A C C C A T C A A A A C A T T T G C G 640
RD1561H9.SEQ C T C C C A A A G G G A G T C A T G C A G A C C C A T C A A A A C A T T T G C G 640

```

```

GRVER51.SEQ T G C G T T T G A T C C A C G C T C T C G A C C C T C G T G T G G T A C T C A 680
GR6.SEQ T G C G T T T G A T C C A C G C T C T C G A C C C T C G T G T G G T A C T C A 680
GRVER5.SEQ T G C G T T T G A T C C A C G C T C T C G A C C C T C G T G T G G T A C T C A 680
GRVER4.SEQ T G C G T T T G A T C C A C G C T C T C G A C C C T C G T G T G G T A C T C A 680
GRVER3.SEQ T G C G T T T G A T C C A C G C C C T C G A C C C T C G T G T G G T A C T C A 680
GRVER2.SEQ T C C G C T T G A T C A T G C C C T G G A C C A C G T G T G G T A C T C A 680
GRVER1.SEQ T C C G C T T G A T T C A T G C C T G G A C C A C G T G T G G T A C T C A 680
YG81-6G1.SEQ T C C G A C T T A T A C A T G C T T T A G A C C C A G G G C A G G A A C G C A 680
RDVER1.SEQ T G C G T C T G A T C C A C G C T C T C G A T C C T C G T A C G G C A C T C A 680
RDVER2.SEQ T G C G T C T G A T C C A C G C T C T C G A T C C T C G T A C G G C A C C A 680
RDVER3.SEQ T G C G T C T G A T C C A T G C T C T C G A T C C A C G C T A C G G C A C T C A 680
RDVER4.SEQ T G C G T C T G A T C C A T G C T C T C G A T C C A C G C T A C G G C A C T C A 680
RDVER5.SEQ T G C G T C T G A T C C A T G C T C T C G A T C C A C G C T A C G G C A C T C A 680
RD7.SEQ T G C G T C T G A T C C A T G C T C T C G A T C C A C G C T A C G G C A C T C A 680
RDVER51.SEQ T G C G T C T G A T C C A T G C T C T C G A T C C A C G C T A C G G C A C T C A 680
RDVER52.SEQ T G C G T C T G A T C C A T G C T C T C G A T C C A C G C T A C G G C A C T C A 680
RD1561H9.SEQ T G C G T C T G A T C C A T G C T C T C G A T C C A C G C T A C G G C A C T C A 680

```

```

GRVER51.SEQ A T T G A T C C C T G G C G T G A C T G T G C T G G T G T A C T G C C T T T C 720
GR6.SEQ A T T G A T C C C T G G C G T G A C T G T G C T G G T G T A C T G C C T T T C 720
GRVER5.SEQ A T T G A T C C C T G G C G T G A C T G T G C T G G T G T A C T G C C T T T C 720
GRVER4.SEQ A T T G A T C C C T G G C G T G A C T G T G C T G G T G T A C T G C C T T T C 720
GRVER3.SEQ A T T G A T C C C T G G C G T G A C T G T G C T G G T G T A T T T G C C T T T C 720
GRVER2.SEQ G T T G A T C C C T G G C G T G A C T G T C T G G T G T A C T T G C C A T T C 720
GRVER1.SEQ G T T G A T C C C T G G C G T G A C T G T C T G G T G T A C T T G C C A T T C 720
YG81-6G1.SEQ A C T A T T C C T G G T G A C A G C T T A G T A T A C T G C C T T T C 720
RDVER1.SEQ A C T G A T T C C A G G T G T C A C C G T G T G T G T C T A T C T G C C T T T C 720
RDVER2.SEQ A C T G A T T C C T G G T G T C A C C G T G T G T G T C T A C T G C C T T T C 720
RDVER3.SEQ G C T G A T T C C T G G T G T C A C C G T C T G T G T C T A C T G C C T T T C 720
RDVER4.SEQ G C T G A T T C C T G G T G T C A C C G T C T G T G T C T A C T T G C C T T T C 720
RDVER5.SEQ G C T G A T T C C T G G T G T C A C C G T C T G T G T C T A C T T G C C T T T C 720
RD7.SEQ G C T G A T T C C T G G T G T C A C C G T C T G T G T C T A C T T G C C T T T C 720
RDVER51.SEQ G C T G A T T C C T G G T G T C A C C G T C T G T G T C T A C T T G C C T T T C 720
RDVER52.SEQ G C T G A T T C C T G G T G T C A C C G T C T G T G T C T A C T T G C C T T T C 720
RD1561H9.SEQ G C T G A T T C C T G G T G T C A C C G T C T G T G T C T A C T T G C C T T T C 720

```

FIG. 2 (cont'd)

GRVER51.SEQ	T	T	T	C	A	G	C	C	T	T	T	G	G	T	T	T	C	T	C	T	A	T	T	A	C	C	T	G	G	G	C	T	A	T	T	T	C	A	760
GR6.SEQ	T	T	T	C	A	G	C	C	T	T	T	G	G	T	T	T	C	T	C	T	A	T	T	A	C	C	T	G	G	G	C	T	A	T	T	T	C	A	760
GRVER5.SEQ	T	T	T	C	A	G	C	C	T	T	T	G	G	T	T	T	C	T	C	T	A	T	T	A	C	C	T	G	G	G	C	T	A	T	T	T	C	A	760
GRVER4.SEQ	T	T	T	C	A	G	C	C	T	T	T	G	G	T	T	T	T	C	T	A	T	T	A	C	C	C	T	G	G	G	C	T	A	T	T	T	C	A	760
GRVER3.SEQ	T	T	T	C	A	G	C	C	T	T	T	G	G	T	T	T	T	C	T	A	T	T	A	C	C	C	T	G	G	G	C	T	A	T	T	T	C	A	760
GRVER2.SEQ	T	T	T	C	A	G	C	C	T	T	T	G	G	T	T	T	T	C	T	A	T	T	A	C	C	C	T	G	G	G	C	T	A	T	T	T	C	A	760
GRVER1.SEQ	T	T	T	C	A	G	C	C	T	T	T	G	G	T	T	T	T	C	T	A	T	T	A	C	C	C	T	G	G	G	C	T	A	T	T	T	C	A	760
YG81-6G1.SEQ	T	T	C	A	T	G	C	T	T	T	T	G	G	T	T	C	T	C	T	A	T	A	C	C	T	T	G	G	A	C	T	T	G	G	A	C	T	A	760
RDVER1.SEQ	T	T	C	A	T	G	C	T	T	T	T	G	G	T	T	C	T	C	A	C	A	T	C	A	C	T	T	T	G	G	T	T	A	C	T	T	T	A	760
RDVER2.SEQ	T	T	C	A	T	G	C	T	T	T	T	G	G	T	T	C	T	C	A	C	A	T	C	A	C	T	T	T	G	G	T	T	A	C	T	T	T	A	760
RDVER3.SEQ	T	T	C	A	T	G	C	T	T	T	T	G	G	T	T	C	T	C	A	C	A	T	A	C	T	T	T	G	G	T	T	A	C	T	T	T	A	760	
RDVER4.SEQ	T	T	C	A	T	G	C	T	T	T	T	G	G	T	T	C	T	C	A	T	A	T	A	C	T	T	T	G	G	T	T	A	C	T	T	T	A	760	
RDVER5.SEQ	T	T	C	A	T	G	C	T	T	T	T	G	G	T	T	C	T	C	A	T	A	T	A	C	T	T	T	G	G	T	T	A	C	T	T	T	A	760	
RD7.SEQ	T	T	C	A	T	G	C	T	T	T	T	G	G	T	T	C	T	C	A	T	A	T	A	C	T	T	T	G	G	T	T	A	C	T	T	T	A	760	
RDVER51.SEQ	T	T	C	A	T	G	C	T	T	T	T	G	G	T	T	C	T	C	A	T	A	T	A	C	T	T	T	G	G	T	T	A	C	T	T	T	A	760	
RDVER52.SEQ	T	T	C	A	T	G	C	T	T	T	T	G	G	T	T	C	T	C	A	T	A	T	A	C	T	T	T	G	G	T	T	A	C	T	T	T	A	760	
RD1561H9.SEQ	T	T	C	A	T	G	C	T	T	T	T	G	G	T	T	C	T	C	A	T	A	T	A	C	T	T	T	G	G	T	T	A	C	T	T	T	A	760	

GRVER51.SEQ	T	G	G	T	C	G	G	C	T	T	G	C	G	T	G	C	A	T	C	A	T	G	T	T	C	G	T	C	G	C	T	T	C	G	A	C	C	A	800
GR6.SEQ	T	G	G	T	C	G	G	C	T	T	G	C	G	T	G	C	A	T	C	A	T	G	T	T	C	G	T	C	G	C	T	T	C	G	A	C	C	A	800
GRVER5.SEQ	T	G	G	T	C	G	G	C	T	T	G	C	G	T	G	C	A	T	C	A	T	G	T	T	C	G	T	C	G	C	T	T	C	G	A	C	C	A	800
GRVER4.SEQ	T	G	G	T	C	G	G	C	T	T	G	C	G	T	G	C	A	T	C	A	T	G	T	T	C	G	T	C	G	C	T	T	C	G	A	C	C	A	800
GRVER3.SEQ	T	G	G	T	C	G	G	C	T	T	G	C	G	T	G	A	T	C	A	T	G	T	T	C	G	T	C	G	C	T	T	C	G	A	C	C	A	800	
GRVER2.SEQ	T	G	G	T	C	G	G	C	T	T	G	C	G	T	G	A	T	C	A	T	G	T	T	C	G	T	C	G	C	T	T	C	G	A	T	C	A	800	
GRVER1.SEQ	T	G	G	T	C	G	G	C	T	T	G	C	G	T	G	A	T	C	A	T	G	T	T	C	G	T	C	G	C	T	T	C	G	A	T	C	A	800	
YG81-6G1.SEQ	T	G	G	T	G	G	T	C	T	C	G	T	G	T	A	T	C	A	T	G	T	T	C	A	G	A	C	G	A	T	T	G	A	T	C	A	800		
RDVER1.SEQ	T	G	G	T	G	G	C	C	T	G	C	G	T	G	C	A	T	T	A	T	G	T	T	C	G	C	C	G	T	T	T	T	G	A	C	C	A	800	
RDVER2.SEQ	T	G	G	T	G	G	C	C	T	G	C	G	T	G	C	A	T	T	A	T	G	T	T	C	G	C	C	G	T	T	T	T	G	A	C	C	A	800	
RDVER3.SEQ	T	G	G	T	C	G	G	C	T	T	G	C	G	T	G	C	A	T	T	A	T	G	T	T	C	G	C	C	G	T	T	T	T	G	A	T	C	A	800
RDVER4.SEQ	T	G	G	T	C	G	G	C	T	T	G	C	G	T	G	A	T	T	A	T	G	T	T	C	G	C	C	G	T	T	T	T	G	A	T	C	A	800	
RDVER5.SEQ	T	G	G	T	C	G	G	C	T	T	C	G	C	G	T	G	A	T	T	A	T	G	T	T	C	G	C	C	G	T	T	T	T	G	A	T	C	A	800
RD7.SEQ	T	G	G	T	C	G	G	C	T	T	C	G	C	G	T	G	A	T	T	A	T	G	T	T	C	G	C	C	G	T	T	T	T	G	A	T	C	A	800
RDVER51.SEQ	T	G	G	T	C	G	G	C	T	T	C	G	C	G	T	G	A	T	T	A	T	G	T	T	C	G	C	C	G	T	T	T	T	G	A	T	C	A	800
RDVER52.SEQ	T	G	G	T	C	G	G	C	T	T	C	G	C	G	T	G	A	T	T	A	T	G	T	T	C	G	C	C	G	T	T	T	T	G	A	T	C	A	800
RD1561H9.SEQ	T	G	G	T	C	G	G	C	T	T	C	G	C	G	T	G	A	T	T	A	T	G	T	T	C	G	C	C	G	T	T	T	T	G	A	T	C	A	800

GRVER51.SEQ	A	G	A	A	G	C	T	T	C	T	T	G	A	A	G	G	C	A	T	T	C	A	A	G	A	C	T	A	C	A	G	A	G	G	T	G	C	G	T	840		
GR6.SEQ	A	G	A	A	G	C	T	T	C	T	T	T	G	A	A	G	G	C	A	T	T	C	A	A	G	A	C	T	A	C	A	G	A	G	G	T	G	C	G	T	840	
GRVER5.SEQ	A	G	A	A	G	C	T	T	C	T	T	T	G	A	A	G	G	C	A	T	T	C	A	A	G	A	C	T	A	C	A	G	A	G	G	T	G	C	G	T	840	
GRVER4. SEQ	A	G	A	A	G	C	T	T	C	T	T	T	G	A	A	G	G	C	A	T	T	C	A	A	G	A	C	T	A	C	A	G	A	G	G	T	G	C	G	T	840	
GRVER3. SEQ	A	G	A	A	G	C	T	T	T	C	T	T	T	G	A	A	G	G	C	A	T	T	C	A	A	G	A	C	T	A	C	A	G	A	G	G	T	G	C	G	T	840
GRVER2. SEQ	A	G	A	A	G	C	T	T	T	C	T	T	T	T	G	A	A	G	C	C	A	T	T	C	A	A	G	A	C	T	A	C	A	G	A	G	G	T	C	G	T	840
GRVER1. SEQ	A	G	A	A	G	C	T	T	T	T	C	T	T	T	T	G	A	A	G	C	C	A	T	T	C	A	A	G	A	C	T	A	C	A	G	A	G	T	C	G	T	840
YG91-6G1. SEQ	A	G	A	A	G	C	A	T	T	T	C	T	T	T	T	A	A	A	G	C	A	T	T	C	A	G	A	T	T	A	G	A	A	G	T	C	G	A	840			
RDVER1. SEQ	G	A	G	A	G	C	T	T	C	T	T	T	T	T	G	A	A	A	G	C	A	T	C	A	A	G	A	T	T	A	G	A	A	G	T	G	C	G	C	840		
RDVER2. SEQ	G	A	G	A	G	C	T	T	T	C	T	T	T	T	T	G	A	A	A	G	C	A	T	C	A	A	G	A	T	T	A	G	A	A	G	T	G	C	G	C	840	
RDVER3. SEQ	G	A	G	A	G	C	T	T	T	T	T	T	T	T	T	T	G	A	A	A	G	C	A	T	C	A	A	G	A	T	T	A	G	A	A	G	T	C	G	C	840	
RDVER4. SEQ	G	A	G	A	G	C	T	T	T	T	T	T	T	T	T	T	G	A	A	A	G	C	A	T	C	A	A	G	A	T	T	A	G	A	A	G	T	C	G	C	840	
RDVER5. SEQ	G	A	G	A	G	C	T	T	T	C	T	T	T	T	T	T	G	A	A	A	G	C	A	T	C	A	A	G	A	T	T	A	G	A	A	G	T	C	G	C	840	
RD7. SEQ	G	A	G	A	G	C	T	T	T	T	T	T	T	T	T	T	G	A	A	A	G	C	A	T	C	A	A	G	A	T	T	A	G	A	A	G	T	C	G	C	840	
RDVER51. SEQ	G	A	G	A	G	C	T	T	T	C	T	T	T	T	T	T	T	G	A	A	A	G	C	A	T	C	A	A	G	A	T	T	A	G	A	A	G	T	C	G	C	840
RDVER52. SEQ	G	A	G	A	G	C	T	T	T	T	T	T	T	T	T	T	T	G	A	A	A	G	C	A	T	C	A	A	G	A	T	T	A	G	A	A	G	T	C	G	C	840
RD1561H9. SEQ	G	A	G	A	G	C	T	T	T	T	T	T	T	T	T	T	T	G	A	A	A	G	C	A	T	C	A	A	G	A	T	T	A	G	A	A	G	T	C	G	C	840

FIG. 2 (cont'd)

GRVER51.SEQ	T	C	C	G	T	G	A	T	C	A	A	C	G	T	C	C	T	T	C	A	G	T	C	A	T	T	T	G	T	T	C	C	T	G	A	G	C	A	880		
GR6.SEQ	T	C	C	G	T	G	A	T	C	A	A	C	G	T	C	C	T	T	C	A	G	T	C	A	T	T	T	G	T	T	C	C	T	G	A	G	C	A	880		
GRVER5.SEQ	T	C	C	G	T	G	A	T	C	A	A	C	G	T	C	C	T	T	C	A	G	T	C	A	T	T	T	G	T	T	C	C	T	G	A	G	C	A	880		
GRVER4.SEQ	T	C	T	G	T	C	A	T	C	A	A	T	G	T	C	C	C	T	T	C	A	G	T	C	A	T	T	T	G	T	T	C	C	T	G	A	G	C	A	880	
GRVER3.SEQ	T	C	T	G	T	G	A	T	C	A	A	T	G	T	C	C	C	A	T	C	T	G	T	C	A	T	T	T	G	T	T	C	C	T	G	A	G	C	A	880	
GRVER2.SEQ	A	G	C	G	T	G	A	T	C	A	A	C	G	T	C	C	C	T	T	C	T	G	T	G	A	T	T	T	G	T	T	C	C	T	G	A	G	C	A	880	
GRVER1.SEQ	A	G	C	G	T	G	A	T	C	A	A	C	G	T	C	C	C	T	T	C	T	G	T	G	A	T	T	T	G	T	T	C	C	T	G	A	G	C	A	880	
YG81-6G1.SEQ	A	G	T	G	T	A	A	T	A	A	C	G	T	C	C	A	T	C	A	G	T	A	A	T	A	T	T	G	T	T	C	C	T	A	T	C	G	A	880		
RDVER1.SEQ	T	C	T	G	T	C	A	T	T	A	A	T	G	T	G	C	C	A	A	G	C	G	T	C	A	T	C	T	T	T	T	T	T	G	T	C	T	A	880		
RDVER2.SEQ	T	C	T	G	T	C	A	T	T	A	A	T	G	T	G	C	C	A	A	G	C	G	T	C	A	T	C	T	T	T	T	T	T	G	T	C	T	A	880		
RDVER3.SEQ	A	G	C	G	T	C	A	T	T	A	A	C	G	T	G	C	C	T	A	G	C	G	T	G	A	T	C	T	G	T	T	T	T	T	G	T	C	T	A	880	
RDVER4.SEQ	A	G	T	G	T	C	A	T	C	A	A	C	G	T	G	C	C	T	A	G	C	G	T	G	A	T	C	T	G	T	T	T	T	T	G	T	C	T	A	880	
RDVER5.SEQ	A	G	T	G	T	C	A	T	C	A	A	C	G	T	G	C	C	T	A	G	C	G	T	G	A	T	C	T	G	T	T	T	T	T	G	T	C	T	A	880	
RD7.SEQ	A	G	T	G	T	C	A	T	C	A	A	C	G	T	G	C	C	T	A	G	C	G	T	G	A	T	C	T	G	T	T	T	T	T	G	T	C	T	A	880	
RDVER51.SEQ	A	G	T	G	T	C	A	T	C	A	A	C	G	T	G	C	C	T	A	G	C	G	T	G	A	T	C	T	G	T	T	T	T	T	G	T	C	T	A	880	
RDVER52.SEQ	A	G	T	G	T	C	A	T	C	A	A	C	G	T	G	C	C	T	A	G	C	G	T	G	A	T	C	T	G	T	T	T	T	T	G	T	C	T	A	880	
RD1561H9.SEQ	A	G	T	G	T	C	A	T	C	A	A	C	G	T	G	C	C	T	A	G	C	G	T	G	A	T	C	T	G	T	T	T	T	T	G	T	C	T	A	880	
GRVER51.SEQ	A	A	T	C	T	C	T	T	T	G	G	T	T	G	A	C	A	A	G	T	A	T	G	A	T	C	T	G	A	G	C	A	G	C	T	T	G	C	G	920	
GR6.SEQ	A	A	T	C	T	C	T	T	T	G	G	T	T	G	A	C	A	A	G	T	A	T	G	A	T	C	T	G	A	G	C	A	G	C	T	T	G	C	G	920	
GRVER5.SEQ	A	A	T	C	T	C	T	T	T	G	G	T	T	G	A	C	A	A	G	T	A	T	G	A	T	C	T	G	A	G	C	A	G	C	T	T	G	C	G	920	
GRVER4.SEQ	A	A	T	C	T	C	T	T	T	G	G	T	T	G	A	C	A	A	G	T	A	T	G	A	T	C	T	G	A	G	C	A	G	C	T	T	G	C	G	920	
GRVER3.SEQ	A	A	T	C	T	C	T	T	T	G	G	T	T	G	A	C	A	A	G	T	A	T	G	A	T	C	T	G	A	G	C	A	G	C	T	T	G	C	G	920	
GRVER2.SEQ	A	A	T	C	T	C	A	T	T	G	G	T	C	G	A	T	A	A	G	T	A	T	G	A	C	T	G	A	G	C	A	G	C	T	T	G	C	G	920		
GRVER1.SEQ	A	A	T	C	T	C	A	T	T	G	G	T	C	G	A	T	A	A	G	T	A	A	G	T	A	C	C	T	G	A	G	C	T	T	T	G	C	G	920		
YG81-6G1.SEQ	A	A	A	G	T	C	C	T	T	T	G	G	T	T	G	A	C	A	A	A	T	A	C	G	A	T	T	A	T	C	A	A	G	T	T	A	A	G	920		
RDVER1.SEQ	A	G	A	G	C	C	C	T	C	T	G	G	T	G	G	A	C	A	A	A	T	A	C	G	A	T	T	G	T	C	T	T	C	A	C	T	T	G	C	G	920
RDVER2.SEQ	A	G	A	G	C	C	C	T	C	T	G	G	T	G	G	A	C	A	A	A	T	A	C	G	A	T	T	G	T	C	T	T	C	A	C	T	T	G	C	G	920
RDVER3.SEQ	A	G	A	G	C	C	C	A	C	T	C	G	T	G	G	A	C	A	A	G	T	A	C	G	A	C	T	T	G	T	C	T	T	C	A	C	T	G	C	G	920
RDVER4.SEQ	A	G	A	G	C	C	C	A	C	T	C	G	T	G	G	A	C	A	A	G	T	A	C	G	A	C	T	T	G	T	C	T	T	C	A	C	T	G	C	G	920
RD7.SEQ	A	G	A	G	C	C	C	A	C	T	C	G	T	G	G	A	C	A	A	G	T	A	C	G	A	C	T	T	G	T	C	T	T	C	A	C	T	G	C	G	920
RDVER51.SEQ	A	G	A	G	C	C	C	A	C	T	C	G	T	G	G	A	C	A	A	G	T	A	C	G	A	C	T	T	G	T	C	T	T	C	A	C	T	G	C	G	920
RDVER52.SEQ	A	G	A	G	C	C	C	A	C	T	C	G	T	G	G	A	C	A	A	G	T	A	C	G	A	C	T	T	G	T	C	T	T	C	A	C	T	G	C	G	920
RD1561H9.SEQ	A	G	A	G	C	C	C	A	C	T	C	G	T	G	G	A	C	A	A	G	T	A	C	G	A	C	T	T	G	T	C	T	T	C	A	C	T	G	C	G	920
GRVER51.SEQ	T	G	A	G	C	T	G	T	G	C	T	G	G	C	G	C	T	G	C	T	C	C	T	T	T	G	G	C	C	A	A	A	G	A	G	T	G	960			
GR6.SEQ	T	G	A	G	C	T	G	T	G	C	T	G	G	C	G	C	T	G	C	T	C	C	T	T	T	G	G	C	C	A	A	A	G	A	G	T	G	960			
GRVER5.SEQ	T	G	A	G	C	T	G	T	G	C	T	G	G	C	G	C	T	G	C	T	C	C	T	T	T	G	G	C	C	A	A	A	G	A	G	T	G	960			
GRVER4.SEQ	T	G	A	G	C	T	G	T	G	C	T	G	G	C	G	C	T	G	C	T	C	C	T	T	T	G	G	C	C	A	A	A	G	A	G	T	G	960			
GRVER3.SEQ	T	G	A	A	C	T	G	T	G	C	T	G	G	C	G	C	T	G	C	T	C	C	T	T	T	G	G	C	C	A	A	A	G	A	G	T	G	960			
GRVER2.SEQ	C	G	A	A	C	T	G	T	G	C	T	G	G	C	G	C	T	G	C	C	C	T	T	T	T	G	G	C	T	A	A	A	G	A	G	T	G	960			
GRVER1.SEQ	C	G	A	A	C	T	G	T	G	C	T	G	T	G	G	C	G	C	T	G	C	C	C	T	T	T	G	G	C	T	A	A	A	G	A	G	T	G	960		
YG81-6G1.SEQ	G	G	A	A	T	T	G	T	T	G	T	T	G	G	G	T	G	G	C	A	C	A	T	T	A	G	C	A	A	A	A	A	G	A	G	T	G	960			
RDVER1.SEQ	T	G	A	G	T	T	G	T	T	G	C	G	G	T	G	C	G	C	T	C	A	C	T	G	G	C	A	A	G	A	G	A	G	T	C	G	960				
RDVER2.SEQ	T	G	A	G	T	T	G	T	T	G	C	G	G	T	G	C	G	C	T	C	A	C	T	G	G	C	A	A	G	A	G	A	G	T	C	G	960				
RDVER3.SEQ	T	G	A	G	T	T	G	T	T	G	C	G	G	T	G	C	G	C	C	C	A	C	T	G	G	C	T	A	A	G	A	G	A	G	T	C	G	960			
RDVER4.SEQ	T	G	A	A	T	T	G	T	T	G	C	G	G	T	G	C	G	C	T	C	A	C	T	G	G	C	T	A	A	G	A	G	A	G	T	C	G	960			
RDVER5.SEQ	T	G	A	A	T	T	G	T	T	G	C	G	G	T	G	C	G	C	T	C	A	C	T	G	G	C	T	A	A	G	A	G	A	G	T	C	G	960			
RD7.SEQ	T	G	A	A	T	T	G	T	T	G	C	G	G	T	G	C	G	C	T	C	A	C	T	G	G	C	T	A	A	G	A	G	A	G	T	C	G	960			
RDVER51.SEQ	T	G	A	A	T	T	G	T	T	G	C	G	G	T	G	C	G	C	T	C	A	C	T	G	G	C	T	A	A	G	A	G	A	G	T	C	G	960			
RDVER52.SEQ	T	G	A	A	T	T	G	T	T	G	C	G	G	T	G	C	G	C	T	C	A	C	T	G	G	C	T	A	A	G	A	G	A	G	T	C	G	960			
RD1561H9.SEQ	T	G	A	A	T	T	G	T	T	G	C	G	G	T	G	C	G	C	T	C	A	C	T	G	G	C	T	A	A	G	A	G	A	G	T	C	G	960			

FIG. 2 (cont'd)

GRVER51.SEQ	G	C	C	G	A	G	G	T	C	G	C	T	G	C	T	A	A	G	C	G	T	C	T	G	A	A	C	C	T	C	C	T	G	G	T	A	T	C	C	1000			
GR6.SEQ	G	C	C	G	A	G	G	T	C	G	C	T	G	C	T	A	A	G	C	G	T	C	T	G	A	A	C	C	T	C	C	T	G	G	T	A	T	C	C	1000			
GRVER5.SEQ	G	C	C	G	A	G	G	T	C	G	C	T	G	C	T	A	A	G	C	G	T	C	T	G	A	A	C	C	T	C	C	T	G	G	T	A	T	C	C	1000			
GRVER4.SEQ	G	C	C	G	A	G	G	T	C	G	C	T	G	C	T	A	A	G	C	G	T	C	T	G	A	A	C	C	T	C	C	T	G	G	T	A	T	C	C	1000			
GRVER3.SEQ	G	C	C	G	A	G	G	T	C	G	C	T	G	C	T	A	A	G	C	G	T	C	T	G	A	A	C	C	T	C	C	T	G	G	T	A	T	C	C	1000			
GRVER2.SEQ	G	C	C	G	A	A	G	T	C	G	C	T	G	C	C	A	A	G	C	G	T	C	T	G	A	A	T	T	T	G	C	C	A	G	G	T	A	T	C	C	1000		
GRVER1.SEQ	G	C	C	G	A	A	G	T	C	G	C	T	G	C	C	A	A	G	C	G	T	C	T	G	A	A	T	T	T	G	C	C	A	G	G	T	A	T	C	C	1000		
YG81-6G1.SEQ	G	C	T	G	A	G	G	T	T	G	C	A	G	C	A	A	A	C	G	A	T	T	A	A	A	C	T	T	G	C	C	A	G	G	A	A	T	C	C	1000			
RDVER1.SEQ	G	C	T	G	A	G	G	T	G	C	C	G	C	T	A	A	A	C	G	C	T	T	G	A	A	C	C	T	T	G	C	C	T	G	G	C	A	T	T	C	1000		
RDVER2.SEQ	G	C	T	G	A	G	G	T	G	G	C	G	C	T	A	A	A	C	G	C	T	T	G	A	A	C	C	T	T	G	C	C	T	G	G	C	A	T	T	C	1000		
RDVER3.SEQ	G	C	T	G	A	A	G	T	G	G	C	G	C	C	A	A	A	C	G	C	T	T	G	A	A	T	C	T	T	G	C	C	A	G	G	C	A	T	T	C	1000		
RDVER4.SEQ	G	C	T	G	A	A	G	T	G	G	C	G	C	C	A	A	A	C	G	C	T	T	G	A	A	T	C	T	T	G	C	C	A	G	G	C	A	T	T	C	1000		
RDVER5.SEQ	G	C	T	G	A	A	G	T	G	G	C	G	C	C	A	A	A	C	G	C	T	T	G	A	A	T	C	T	T	C	C	A	G	G	G	A	T	T	C	1000			
RD7.SEQ	G	C	T	G	A	A	G	T	G	G	C	G	C	C	A	A	A	C	G	C	T	T	G	A	A	T	C	T	T	C	C	A	G	G	G	A	T	T	C	1000			
RDVER51.SEQ	G	C	T	G	A	A	G	T	G	G	C	G	C	C	A	A	A	C	G	C	T	T	G	A	A	T	C	T	T	C	C	A	G	G	G	A	T	T	C	1000			
RDVER52.SEQ	G	C	T	G	A	A	G	T	G	G	C	G	C	C	A	A	A	C	G	C	T	T	G	A	A	T	C	T	T	C	C	A	G	G	G	A	T	T	C	1000			
RD1561H9.SEQ	G	C	T	G	A	A	G	T	G	G	C	G	C	C	A	A	A	C	G	C	T	T	G	A	A	T	C	T	T	C	C	A	G	G	G	A	T	T	C	1000			
GRVER51.SEQ	G	C	T	G	C	G	G	T	T	T	G	G	T	T	T	G	A	C	T	G	A	G	A	G	A	C	A	C	T	T	C	T	G	C	T	A	A	C	A	T	1040		
GR6.SEQ	G	C	T	G	C	G	G	T	T	T	G	G	T	T	T	G	A	C	T	G	A	G	A	G	A	C	A	C	T	T	C	T	G	C	T	A	A	C	A	T	1040		
GRVER5.SEQ	G	C	T	G	C	G	G	T	T	T	G	G	T	T	T	G	A	C	T	G	A	G	A	G	A	C	A	C	T	T	C	T	G	C	T	A	A	C	A	T	1040		
GRVER4.SEQ	G	C	T	G	C	G	G	T	T	T	G	G	T	T	T	G	A	C	T	G	A	G	A	G	A	C	A	C	T	T	C	T	G	C	T	A	A	C	A	T	1040		
GRVER3.SEQ	G	C	T	G	C	G	G	T	T	T	G	G	T	T	T	G	A	C	T	G	A	G	A	G	A	C	A	C	T	T	C	T	G	C	C	A	A	C	A	T	1040		
GRVER2.SEQ	G	C	T	G	C	G	G	T	T	T	G	G	T	C	T	G	A	C	T	G	A	G	A	G	A	C	A	C	T	T	C	T	G	C	T	A	A	C	A	T	1040		
GRVER1.SEQ	G	C	T	G	C	G	G	T	T	T	G	G	T	C	T	G	A	C	T	G	A	G	A	G	A	C	A	C	T	T	C	T	G	C	T	A	A	C	A	T	1040		
YG81-6G1.SEQ	G	C	T	G	T	G	G	A	T	T	T	G	G	T	T	T	G	A	C	A	G	A	A	T	C	A	C	T	T	C	A	G	C	T	A	A	C	A	T	1040			
RDVER1.SEQ	G	T	T	G	T	G	G	T	T	T	C	G	G	C	T	T	G	A	C	C	G	A	A	T	C	T	A	C	T	A	G	C	G	C	A	T	T	A	T	1040			
RDVER2.SEQ	G	T	T	G	T	G	G	T	T	T	C	G	G	C	T	T	G	A	C	C	G	A	A	T	C	T	A	C	T	A	G	C	G	C	A	T	T	A	T	1040			
RDVER3.SEQ	G	T	T	G	T	G	G	T	T	T	C	G	G	C	T	T	C	A	C	C	G	A	A	T	C	T	A	C	T	A	C	A	G	G	C	T	A	T	T	A	1040		
RDVER4.SEQ	G	T	T	G	T	G	G	T	T	T	C	G	G	C	T	T	C	A	C	C	G	A	A	T	C	T	A	C	T	A	C	A	G	G	C	T	A	T	T	A	1040		
RDVER5.SEQ	G	T	T	G	T	G	G	T	T	T	C	G	G	C	T	T	C	A	C	C	G	A	A	T	C	T	A	C	T	A	C	A	G	C	G	C	A	T	T	A	1040		
RD7.SEQ	G	T	T	G	T	G	G	T	T	T	C	G	G	C	T	T	C	A	C	C	G	A	A	T	C	T	A	C	T	T	C	C	A	G	G	G	A	T	T	A	1040		
RDVER51.SEQ	G	T	T	G	T	G	G	T	T	T	C	G	G	C	T	T	C	A	C	C	G	A	A	T	C	T	A	C	T	T	C	C	A	G	G	G	A	T	T	C	1040		
RDVER52.SEQ	G	T	T	G	T	G	G	T	T	T	C	G	G	C	T	T	C	A	C	C	G	A	A	T	C	T	A	C	T	T	C	C	A	G	G	G	A	T	T	C	1040		
RD1561H9.SEQ	G	T	T	G	T	G	G	T	T	T	C	G	G	C	T	T	C	A	C	C	G	A	A	T	C	T	A	C	T	T	C	C	A	G	T	G	C	G	A	T	T	A	1040
GRVER51.SEQ	C	C	A	T	A	G	C	T	T	G	C	G	A	G	A	C	G	A	G	T	T	T	A	A	G	T	C	T	T	G	G	T	A	G	C	T	G	G	G	T	1080		
GR6.SEQ	C	C	A	T	A	G	C	T	T	G	C	G	A	G	A	C	G	A	G	T	T	T	A	A	G	T	C	T	T	G	G	T	A	G	C	T	G	G	G	T	1080		
GRVER5.SEQ	C	C	A	T	A	G	C	T	T	G	C	G	A	G	A	C	G	A	G	T	T	T	A	A	G	T	C	T	T	G	G	T	A	G	C	T	G	G	G	T	1080		
GRVER4.SEQ	C	C	A	T	A	G	C	T	T	G	C	G	A	G	A	C	G	A	G	T	T	T	A	A	G	T	C	T	T	G	G	T	A	G	C	T	G	G	G	T	1080		
GRVER3.SEQ	C	C	A	T	A	G	C	T	T	G	C	G	T	G	A	C	G	A	G	T	T	T	A	A	G	T	C	T	T	G	G	T	A	G	C	T	G	G	G	T	1080		
GRVER2.SEQ	T	C	A	T	A	G	C	T	T	G	C	G	T	G	A	T	G	A	G	T	T	C	A	A	T	C	T	T	G	G	C	A	G	C	T	G	G	G	T	1080			
GRVER1.SEQ	T	C	A	T	A	G	C	T	T	G	C	G	T	G	A	T	G	A	A	T	T	C	A	A	T	C	T	T	G	G	C	A	G	C	T	G	G	G	T	1080			
YG81-6G1.SEQ	A	C	A	C	A	G	T	C	T	T	A	G	G	A	T	T	T	A	A	T	T	T	A	A	T	C	A	G	A	T	C	A	G	A	T	C	A	T	T	G	A	1080	
RDVER1.SEQ	C	C	A	A	T	C	T	C	T	G	C	G	C	A	C	G	A	G	A	T	T	T	A	A	G	A	G	G	G	T	T	C	T	T	T	G	G	G	C	1080			
RDVER2.SEQ	C	C	A	A	T	C	T	C	T	G	C	G	C	A	C	G	A	A	T	T	T	A	A	G	A	G	A	G	G	G	T	T	C	T	T	T	G	G	G	C	1080		
RDVER3.SEQ	T	C	A	A	T	C	T	C	C	G	C	G	A	T	G	A	G	A	T	T	T	A	A	G	A	G	A	G	G	C	T	C	T	T	T	G	G	G	C	1080			
RDVER4.SEQ	T	C	A	G	T	C	T	C	C	G	C	G	A	T	G	A	G	T	T	T	A	A	G	A	G	A	G	G	G	C	T	C	T	T	T	G	G	G	C	1080			
RDVER5.SEQ	T	C	A	G	T	C	T	C	C	G	C	G	A	T	G	A	G	T	T	T	A	A	G	A	G	A	G	G	G	C	T	C	T	T	T	G	G	G	C	1080			
RD7.SEQ	T	C	A	G	T	C	T	C	C	G	C	G	A	T	G	A	G	T	T	T	A	A	G	A	G	A	G	G	G	C	T	C	T	T	T	G	G	G	C	1080			
RDVER51.SEQ	T	C	A	G	T	C	T	C	C	G	C	G	A	T	G	A	G	T	T	T	A	A	G	A	G	A	G	G	G	C	T	C	T	T	T	G	G	G	C	1080			
RDVER52.SEQ	T	C	A	G	T	C	T	C	C	G	C	G	A	T	G	A	G	T	T	T	A	A	G	A	G	A	G	G	G	C	T	C	T	T	T	G	G	G	C	1080			
RD1561H9.SEQ	C	C	A	G	A	C	T	C	G	G	G	A	T	G	A	G	T	T	T	A	A	G	A	G	A	G	A	G	G	C	T	C	T	T	T	G	G	G	C	1080			

FIG. 2 (cont'd)

GRVER51.SEQ	C	G	C	G	T	G	A	C	T	C	T	C	T	T	A	T	G	G	C	T	G	C	A	A	A	G	A	T	C	G	C	G	A	C	C	G	T	G	1120		
GR6.SEQ	C	G	C	G	T	G	A	C	T	C	T	C	T	T	A	T	G	G	C	T	G	C	A	A	A	G	A	T	C	G	C	G	A	C	C	G	T	G	1120		
GRVER5.SEQ	C	G	C	G	T	G	A	C	T	C	T	C	T	T	A	T	G	G	C	T	G	C	A	A	A	G	A	T	C	G	C	G	A	C	C	G	T	G	1120		
GRVER4.SEQ	C	G	C	G	T	G	A	C	T	C	T	C	T	T	A	T	G	G	C	T	G	C	A	A	A	G	A	T	C	G	C	G	A	C	C	G	T	G	1120		
GRVER3.SEQ	C	G	C	G	T	G	A	C	C	C	C	T	T	T	A	T	G	G	C	T	G	C	A	A	A	G	A	T	C	G	C	G	A	C	C	G	T	G	1120		
GRVER2.SEQ	C	G	C	G	T	G	A	C	T	C	T	T	T	T	A	T	G	G	C	T	G	C	T	A	A	G	A	T	C	G	C	G	A	C	C	G	T	G	1120		
GRVER1.SEQ	C	G	C	G	T	G	A	C	T	C	T	T	T	T	A	T	G	G	C	T	G	C	T	A	A	G	A	T	C	G	C	G	A	C	C	G	T	G	1120		
YG81-6G1.SEQ	A	G	A	G	T	A	C	T	C	T	C	T	T	A	A	T	G	G	C	A	G	T	A	A	A	A	T	A	G	C	A	G	A	T	A	G	G	1120			
RDVER1.SEQ	C	G	T	G	T	C	A	C	C	C	A	C	T	T	A	T	G	G	C	T	G	C	A	A	A	A	T	T	G	C	T	G	A	T	C	G	C	G	1120		
RDVER2.SEQ	C	G	T	G	T	C	A	C	C	C	A	C	T	T	A	T	G	G	C	T	G	C	A	A	A	A	T	T	G	C	T	G	A	T	C	G	C	G	1120		
RDVER3.SEQ	C	G	T	G	T	C	A	C	T	C	C	A	C	T	C	A	T	G	G	C	T	G	C	T	A	A	A	T	C	G	C	T	G	A	T	C	G	C	G	1120	
RDVER4.SEQ	C	G	T	G	T	C	A	C	T	C	C	A	C	T	C	A	T	G	G	C	T	G	C	T	A	A	G	A	T	C	G	C	T	G	A	T	C	G	C	G	1120
RDVER5.SEQ	C	G	T	G	T	C	A	C	T	C	C	A	C	T	C	A	T	G	G	C	T	G	C	T	A	A	G	A	T	C	G	C	T	G	A	T	C	G	C	G	1120
RD7.SEQ	C	G	T	G	T	C	A	C	T	C	C	A	C	T	C	A	T	G	G	C	T	G	C	T	A	A	G	A	T	C	G	C	T	G	A	T	C	G	C	G	1120
RDVER51.SEQ	C	G	T	G	T	C	A	C	T	C	C	A	C	T	C	A	T	G	G	C	T	G	C	T	A	A	G	A	T	C	G	C	T	G	A	T	C	G	C	G	1120
RDVER52.SEQ	C	G	T	G	T	C	A	C	T	C	C	A	C	T	C	A	T	G	G	C	T	G	C	T	A	A	G	A	T	C	G	C	T	G	A	T	C	G	C	G	1120
RD1561H9.SEQ	C	G	T	G	T	C	A	C	T	C	C	A	C	T	C	A	T	G	G	C	T	G	C	T	A	A	G	A	T	C	G	C	T	G	A	T	C	G	C	G	1120
GRVER51.SEQ	A	G	A	C	C	G	G	C	A	A	A	G	C	A	C	T	G	G	C	C	A	A	A	T	C	A	A	G	T	C	G	G	T	G	A	A	T	T	1160		
GR6.SEQ	A	G	A	C	C	G	G	C	A	A	A	G	C	A	C	T	G	G	C	C	A	A	A	T	C	A	A	G	T	C	G	G	T	G	A	A	T	T	1160		
GRVER5.SEQ	A	G	A	C	C	G	G	C	A	A	A	G	C	A	C	T	G	G	C	C	A	A	A	T	C	A	A	G	T	C	G	G	T	G	A	A	T	T	1160		
GRVER4.SEQ	A	G	A	C	C	G	G	C	A	A	A	G	C	A	C	T	G	G	C	C	A	A	A	T	C	A	A	G	T	C	G	G	T	G	A	A	T	T	1160		
GRVER3.SEQ	A	G	A	C	C	G	G	C	A	A	A	G	C	A	C	T	G	G	C	C	A	A	A	T	C	A	A	G	T	C	G	G	T	G	A	A	T	T	1160		
GRVER2.SEQ	A	G	A	C	C	G	G	C	A	A	A	G	C	A	C	T	G	G	C	T	C	A	A	A	T	C	A	A	G	T	C	G	G	C	G	A	A	T	T	1160	
GRVER1.SEQ	A	G	A	C	C	G	G	C	A	A	A	G	C	A	C	T	G	G	C	T	C	A	A	A	T	C	A	A	G	T	C	G	G	C	G	A	A	T	T	1160	
YG81-6G1.SEQ	A	A	A	C	T	G	G	T	A	A	A	G	C	A	T	T	G	G	A	C	A	A	A	T	C	A	A	G	T	T	G	T	G	T	G	A	A	T	T	1160	
RDVER1.SEQ	A	A	A	C	T	G	G	T	A	A	A	G	C	C	T	T	G	G	C	C	T	A	A	C	A	C	A	G	T	G	G	T	G	A	A	G	C	T	1160		
RDVER2.SEQ	A	A	A	C	T	G	G	T	A	A	A	G	C	C	T	T	G	G	C	C	T	A	A	C	A	C	A	A	G	T	G	G	T	G	A	A	G	C	T	1160	
RDVER3.SEQ	A	A	A	C	T	G	G	T	A	A	A	G	C	C	T	T	T	G	G	C	C	T	A	A	C	A	C	A	A	G	T	G	G	C	G	A	A	G	C	T	1160
RDVER4.SEQ	A	A	A	C	T	G	G	T	A	A	A	G	C	T	T	T	G	G	C	C	T	A	A	C	A	C	A	A	G	T	G	G	C	G	A	A	G	C	T	1160	
RDVER5.SEQ	A	A	A	C	T	G	G	T	A	A	A	G	C	C	T	T	T	G	G	C	C	G	A	A	C	A	C	A	A	G	T	G	G	C	G	A	A	G	C	T	1160
RD7.SEQ	A	A	A	C	T	G	G	T	A	A	A	G	C	C	T	T	T	G	G	C	C	G	A	A	C	A	C	A	A	G	T	G	G	C	G	A	A	G	C	T	1160
RDVER51.SEQ	A	A	A	C	T	G	G	T	A	A	A	G	C	C	T	T	T	G	G	C	C	G	A	A	C	A	C	A	A	G	T	G	G	C	G	A	A	G	C	T	1160
RDVER52.SEQ	A	A	A	C	T	G	G	T	A	A	A	G	C	C	T	T	T	G	G	C	C	G	A	A	C	A	C	A	A	G	T	G	G	C	G	A	A	G	C	T	1160
RD1561H9.SEQ	A	A	A	C	T	G	G	T	A	A	A	G	C	C	T	T	T	G	G	C	C	G	A	A	C	A	C	A	A	G	T	G	G	C	G	A	A	G	C	T	1160
GRVER51.SEQ	G	T	G	T	A	T	T	A	A	G	G	G	C	C	T	A	T	G	G	T	C	T	C	T	A	A	A	G	C	T	A	C	G	T	G	A	A	C	1200		
GR6.SEQ	G	T	G	T	A	T	T	A	A	G	G	G	C	C	T	A	T	G	G	T	C	T	C	T	A	A	A	G	C	T	A	C	G	T	G	A	A	C	1200		
GRVER5.SEQ	G	T	G	T	A	T	T	A	A	G	G	G	C	C	T	A	T	G	G	T	C	T	C	T	A	A	A	G	C	T	A	C	G	T	G	A	A	C	1200		
GRVER4.SEQ	G	T	G	T	A	T	T	A	A	G	G	G	C	C	T	A	T	G	G	T	C	T	C	T	A	A	A	G	C	T	A	C	G	T	G	A	A	C	1200		
GRVER3.SEQ	G	T	G	C	A	T	T	A	A	G	G	G	C	C	T	A	T	G	G	T	C	T	C	T	A	A	A	G	C	T	A	C	G	T	G	A	A	C	1200		
GRVER2.SEQ	G	T	G	T	A	T	T	A	A	G	G	G	C	C	T	A	T	G	G	T	G	T	C	T	A	A	A	G	C	T	A	C	G	T	C	A	A	C	1200		
GRVER1.SEQ	G	T	G	T	A	T	T	A	A	G	G	G	C	C	T	A	T	G	G	T	G	T	C	T	A	A	A	G	C	T	A	C	G	T	C	A	A	C	1200		
YG81-6G1.SEQ	A	T	G	C	A	T	T	A	A	A	G	G	T	C	C	A	T	G	G	T	A	T	C	G	A	A	A	G	G	T	T	A	C	G	T	G	A	A	C	1200	
RDVER1.SEQ	G	T	G	C	A	T	C	A	A	A	G	C	C	C	A	A	T	G	G	T	C	A	G	C	A	A	G	G	G	T	T	A	T	G	T	G	A	A	T	1200	
RDVER2.SEQ	G	T	G	C	A	T	T	A	A	A	G	C	C	C	A	A	T	G	G	T	C	A	G	C	A	A	G	G	G	T	T	A	T	G	T	G	A	A	T	1200	
RDVER3.SEQ	G	T	G	T	A	T	C	A	A	A	G	C	C	C	T	A	T	G	G	T	G	A	G	C	A	A	G	G	G	T	T	A	T	G	T	C	A	A	T	1200	
RDVER4.SEQ	G	T	G	T	A	T	C	A	A	A	G	C	C	C	T	A	T	G	G	T	G	A	G	C	A	A	G	G	G	T	T	A	T	G	T	C	A	A	T	1200	
RDVER5.SEQ	G	T	G	T	A	T	C	A	A	A	G	C	C	C	T	A	T	G	G	T	G	A	G	C	A	A	G	G	G	T	T	A	T	G	T	C	A	A	T	1200	
RD7.SEQ	G	T	G	T	A	T	C	A	A	A	G	C	C	C	T	A	T	G	G	T	G	A	G	C	A	A	G	G	G	T	T	A	T	G	T	C	A	A	T	1200	
RDVER51.SEQ	G	T	G	T	A	T	C	A	A	A	G	C	C	C	T	A	T	G	G	T	G	A	G	C	A	A	G	G	G	T	T	A	T	G	T	C	A	A	T	1200	
RDVER52.SEQ	G	T	G	T	A	T	C	A	A	A	G	C	C	C	T	A	T	G	G	T	G	A	G	C	A	A	G	G	G	T	T	A	T	G	T	C	A	A	T	1200	
RD1561H9.SEQ	G	T	G	T	A	T	C	A	A	A	G	C	C	C	T	A	T	G	G	T	G	A	G	C	A	A	G	G	G	T	T	A	T	G	T	C	A	A	T	1200	

FIG. 2 (cont'd)

GRVER51.SEQ A A T G T G G A G G C C A C T A A A G A A G C C A T T G A T G A T G A T G G C T 1240
 GR6.SEQ A A T G T G G A G G C C A C T A A A G A A G C C A T T G A T G A T G A T G G C T 1240
 GRVER5.SEQ A A T G T G G A G G C C A C T A A A G A A G C C A T T G A T G A T G A T G G C T 1240
 GRVER4.SEQ A A T G T G G A G G C C A C T A A A G A A G C C A T T G A T G A T G A T G G C T 1240
 GRVER3.SEQ A A T G T G G A G G C C A C T A A A G A A G C C A T T G A T G A T G A T G G T T 1240
 GRVER2.SEQ A A T G T G G A G G C C A C T A A G G A A G C T A T T G A T G A C G A T G G T T 1240
 GRVER1.SEQ A A T G T G G A G G C C A C T A A G G A A G C T A C G A T G A C G A T G G T T 1240
 YG81-6G1.SEQ A A T G T A G A A G C T A C C A A G A A G C T A T T G A T G A T G A T G G T T 1240
 RDVER1.SEQ A A C G T C G A A G C T A C C A A G A G G C C A T T G A C G A T G A C G G C T 1240
 RDVER2.SEQ A A C G T C G A A G C T A C C A A G A G G C C A T C G A C G A T G A C G G C T 1240
 RDVER3.SEQ A A C G T C G A A G C T A C C A A G A G G C C A T C G A C G A C G A C G G C T 1240
 RDVER4.SEQ A A C G T C G A A G C T A C C A A G A G G C C A T C G A C G A C G A C G G C T 1240
 RDVER5.SEQ A A C G T C G A A G C T A C C A A G A G G C C A T C G A C G A C G A C G G C T 1240
 RD7.SEQ A A C G T T G A A G C T A C C A A G A G G C C A T C G A C G A C G A C G G C T 1240
 RDVER51.SEQ A A C G T T G A A G C T A C C A A G A G G C C A T C G A C G A C G A C G G C T 1240
 RDVER52.SEQ A A C G T T G A A G C T A C C A A G A G G C C A T C G A C G A C G A C G G C T 1240
 RD1561H9.SEQ A A C G T T G A A G C T A C C A A G A G G C C A T C G A C G A C G A C G G C T 1240

GRVER51.SEQ G G C T C C A T A G C G G C G A C T T C G G T T A C T A T G A T G A G G A C G A 1280
 GR6.SEQ G G C T C C A T A G C G G C G A C T T C G G T T A C T A T G A T G A G G A C G A 1280
 GRVER5.SEQ G G C T C C A T A G C G G C G A C T T C G G T T A C T A T G A T G A G G A C G A 1280
 GRVER4.SEQ G G C T C C A T A G C G G C G A C T T C G G T T A C T A T G A T G A G G A C G A 1280
 GRVER3.SEQ G G T T G C A T T C G G C G G C A C T T C G G T T A C T A T G A T G A G G A C G A 1280
 GRVER2.SEQ G G C T G C A C A G C G G C G A C T T T G G T T A T T A C G A T G A G G A C G A 1280
 GRVER1.SEQ G G C T G C A C A G C G G C G A C T T T G G T T A T T A C G A T G A G G A C G A 1280
 YG81-6G1.SEQ G G C T C A C T C T G G A G A C T T T G G A T A C T A T G A T G A G G A C G A 1280
 RDVER1.SEQ G G T T T G C A T T C T G G T G A T T T C G G C T A C T A T G A C G A A G A T G A 1280
 RDVER2.SEQ G G T T T G C A T T C T G G T G A T T T C G G C T A C T A T G A C G A A G A T G A 1280
 RDVER3.SEQ G G C T T G C A T T C T G G T G A T T T T G G C T A C T A C G A C G A A G A T G A 1280
 RDVER4.SEQ G G T T T G C A T T C T G G T G A T T T T G G A T T T A C G A C G A A G A T G A 1280
 RDVER5.SEQ G G T T T G C A T T C T G G T G A T T T T G G A T T A C G A C G A A G A T G A 1280
 RD7.SEQ G G T T T G C A T T C T G G T G A T T T T G G A T T A C G A C G A A G A T G A 1280
 RDVER51.SEQ G G T T T G C A T T C T G G T G A T T T T G G A T T A C G A C G A A G A T G A 1280
 RDVER52.SEQ G G T T T G C A T T C T G G T G A T T T T G G A T T A C G A C G A A G A T G A 1280
 RD1561H9.SEQ G G T T T G C A T T C T G G T G A T T T T G G A T T A C G A C G A A G A T G A 1280

GRVER51.SEQ A C A C T T C T A T G T G G T C G A T C G C T A C A A A G A A T T G A T T A A G 1320
 GR6.SEQ A C A C T T C T A T G T G G T C G A T C G C T A C A A A G A A T T G A T T A A G 1320
 GRVER5.SEQ A C A C T T C T A T G T G G T C G A T C G C T A C A A A G A A T T G A T T A A G 1320
 GRVER4.SEQ A C A C T T C T A T G T G G T C G A T C G C T A C A A A G A A T T G A T T A A G 1320
 GRVER3.SEQ A C A C T T C T A T G T G G T C G A T C G C T A A A A G A A T T G A T T A A G 1320
 GRVER2.SEQ A C A T T T C T A T G T C G T C G A T C G C T A C A A A G A G T T G A T T A A G 1320
 GRVER1.SEQ A C A T T T C T A T G T C G T G G A T C G C T A C A A A G A G T T G A T T A A G 1320
 YG81-6G1.SEQ G C A T T T C A T T C T G G T G G A C C G T T A C A A G G A A T T G A T T A A A 1320
 RDVER1.SEQ G C A C T T T T A C G T G G T C G A C C G T T A T A A G G A A C T G A T C A A A 1320
 RDVER2.SEQ G C A C T T T T A C G T G G T G G A C C G T T A T A A G G A A C T G A T C A A A 1320
 RDVER3.SEQ G C A T T T T T A C G T C G T G G A T C G T T A C A A G A G C T G A T C A A A 1320
 RDVER4.SEQ G C A T T T T T A C G T C G T G G A T C G T T A C A A G A G C T G A T C A A A 1320
 RDVER5.SEQ G C A T T T T T A C G T C G T G G A T C G T T A C A A G A G C T G A T C A A A 1320
 RD7.SEQ G C A T T T T T A C G T C G T G G A T C G T T A C A A G G A G C T G A T C A A A 1320
 RDVER51.SEQ G C A T T T T T A C G T C G T G G A T C G T T A C A A G A G C T G A T C A A A 1320
 RDVER52.SEQ G C A T T T T T A C G T C G T G G A T C G T T A C A A G A G C T G A T C A A A 1320
 RD1561H9.SEQ G C A T T T T T A C G T C G T G G A T C G T T A C A A G A G C T G A T C A A A 1320

FIG. 2 (cont'd)

GRVER51.SEQ	T	A	C	A	A	A	G	G	C	T	C	A	A	G	T	C	G	C	A	C	A	G	C	C	G	A	A	C	T	G	G	A	A	G	A	A	1360
GR6.SEQ	T	A	C	A	A	A	G	G	C	T	C	A	A	G	T	C	G	C	A	C	A	G	C	C	G	A	A	C	T	G	G	A	A	G	A	A	1360
GRVER5.SEQ	T	A	C	A	A	A	G	G	C	T	C	A	A	G	T	C	G	C	A	C	A	G	C	C	G	A	A	C	T	G	G	A	A	G	A	A	1360
GRVER4.SEQ	T	A	C	A	A	A	G	G	C	T	C	A	A	G	T	C	G	C	C	A	G	C	C	G	A	A	C	T	G	G	A	A	G	A	A	1360	
GRVER3.SEQ	T	A	C	A	A	A	G	G	C	T	C	A	A	G	T	C	G	C	C	A	G	C	C	G	A	A	C	T	G	G	A	A	G	A	A	1360	
GRVER2.SEQ	T	A	T	A	A	A	G	G	C	T	C	A	A	G	T	C	G	C	C	A	G	C	T	G	A	G	C	T	G	G	A	A	G	A	A	1360	
GRVER1.SEQ	T	A	T	A	A	A	G	G	C	T	C	A	A	G	T	C	G	C	C	A	G	C	T	G	A	G	C	T	G	G	A	A	G	A	A	1360	
YG81-6G1.SEQ	T	A	T	A	A	G	G	C	T	C	A	A	G	T	C	A	G	C	A	C	T	G	C	A	G	A	A	C	T	A	G	A	A	G	A	1360	
RDVER1.SEQ	T	A	C	A	A	G	G	T	A	G	C	A	A	G	T	G	G	C	T	C	T	G	C	C	G	A	A	T	T	G	G	A	G	A	A	1360	
RDVER2.SEQ	T	A	C	A	A	G	G	T	A	G	C	A	A	G	T	G	G	C	T	C	T	G	C	C	G	A	A	T	T	G	G	A	G	A	A	1360	
RDVER3.SEQ	T	A	C	A	A	G	G	T	A	G	C	A	A	G	T	G	G	C	T	C	A	G	C	C	G	A	A	T	T	G	G	A	G	A	A	1360	
RDVER4.SEQ	T	A	C	A	A	G	G	T	A	G	C	A	A	G	T	G	G	C	T	C	A	G	C	C	G	A	A	T	T	G	G	A	G	A	A	1360	
RDVER5.SEQ	T	A	C	A	A	G	G	T	A	G	C	A	A	G	T	G	G	C	T	C	A	G	C	C	G	A	A	T	T	G	G	A	G	A	A	1360	
RD7.SEQ	T	A	C	A	A	G	G	T	A	G	C	A	A	G	T	G	G	C	T	C	A	G	C	C	G	A	A	T	T	G	G	A	G	A	A	1360	
RDVER51.SEQ	T	A	C	A	A	G	G	T	A	G	C	A	A	G	T	G	G	C	T	C	A	G	C	C	G	A	A	T	T	G	G	A	G	A	A	1360	
RDVER52.SEQ	T	A	C	A	A	G	G	T	A	G	C	A	A	G	T	G	G	C	T	C	A	G	C	C	G	A	A	T	T	G	G	A	G	A	A	1360	
RD1561H9.SEQ	T	A	C	A	A	G	G	T	A	G	C	A	A	G	T	G	G	C	T	C	A	G	C	C	G	A	A	T	T	G	G	A	G	A	A	1360	
GRVER51.SEQ	T	T	T	T	G	C	T	G	A	A	G	A	A	C	C	T	T	G	T	A	T	C	G	C	G	A	C	G	T	G	G	C	C	G	T	1400	
GR6SEQ	T	T	T	T	G	C	T	G	A	A	G	A	A	C	C	T	T	G	T	A	T	C	G	C	G	A	C	G	T	G	G	C	C	G	T	1400	
GRVER5.SEQ	T	T	T	T	G	C	T	G	A	A	G	A	A	C	C	T	T	G	T	A	T	C	G	C	G	A	C	G	T	G	G	C	C	G	T	1400	
GRVER4.SEQ	T	T	T	T	G	C	T	G	A	A	G	A	A	C	C	T	T	G	T	A	T	C	G	C	G	A	C	G	T	G	G	C	C	G	T	1400	
GRVER3.SEQ	T	T	T	T	G	C	T	G	A	A	G	A	A	C	C	T	T	G	T	A	T	C	G	C	G	A	C	G	T	G	G	C	C	G	T	1400	
GRVER2.SEQ	T	C	T	T	G	C	T	G	A	A	G	A	A	C	C	T	T	G	C	A	T	T	C	G	T	A	C	G	T	G	G	C	C	G	T	1400	
GRVER1.SEQ	T	C	T	T	G	C	T	G	A	A	G	A	A	C	C	T	T	G	C	A	T	T	C	G	T	A	C	G	T	G	G	C	C	G	T	1400	
YG81-6G1.SEQ	T	T	T	T	A	T	T	G	A	A	A	A	A	T	C	A	T	G	T	A	T	C	A	G	A	G	A	T	T	G	C	T	G	T	G	1400	
RDVER1.SEQ	T	T	C	T	G	T	T	G	A	A	A	A	A	T	C	A	T	G	T	A	T	C	G	C	G	A	T	G	T	C	G	C	T	G	T	1400	
RDVER2.SEQ	T	T	C	T	G	T	T	G	A	A	A	A	A	T	C	A	T	G	T	A	T	C	G	C	G	A	T	G	T	C	G	C	T	G	T	1400	
RDVER3.SEQ	T	T	C	T	G	T	T	G	A	A	A	A	A	T	C	A	T	G	T	A	T	C	G	C	G	A	T	G	T	C	G	C	T	G	T	1400	
RDVER4.SEQ	T	T	C	T	G	T	T	G	A	A	A	A	A	T	C	A	T	G	T	A	T	C	G	C	G	A	T	G	T	C	G	C	T	G	T	1400	
RDVER5.SEQ	T	T	C	T	G	T	T	G	A	A	A	A	A	T	C	A	T	G	T	A	T	C	G	C	G	A	T	G	T	C	G	C	T	G	T	1400	
RD7.SEQ	T	T	C	T	G	T	T	G	A	A	A	A	A	T	C	A	T	G	T	A	T	C	G	C	G	A	T	G	T	C	G	C	T	G	T	1400	
RDVER51.SEQ	T	T	C	T	G	T	T	G	A	A	A	A	A	T	C	A	T	G	T	A	T	C	G	C	G	A	T	G	T	C	G	C	T	G	T	1400	
RDVER52.SEQ	T	T	C	T	G	T	T	G	A	A	A	A	A	T	C	A	T	G	T	A	T	C	G	C	G	A	T	G	T	C	G	C	T	G	T	1400	
RD1561H9.SEQ	T	T	C	T	G	T	T	G	A	A	A	A	A	T	C	A	T	G	T	A	T	C	G	C	G	A	T	G	T	C	G	C	T	G	T	1400	
GRVER51.SEQ	G	G	G	T	A	T	C	C	A	G	A	C	T	T	G	G	A	A	G	C	T	G	C	G	A	G	T	T	G	C	T	A	G	C	G	C	1440
GR6SEQ	G	G	G	T	A	T	C	C	A	G	A	C	T	T	G	G	A	A	G	C	T	G	C	G	A	G	T	T	G	C	T	A	G	C	G	C	1440
GRVER5.SEQ	G	G	G	T	A	T	C	C	A	G	A	C	T	T	G	G	A	A	G	C	T	G	C	G	A	G	T	T	G	C	T	A	G	C	G	C	1440
GRVER4.SEQ	G	G	G	T	A	T	C	C	A	G	A	C	T	T	G	G	A	A	G	C	T	G	C	G	A	G	T	T	G	C	T	A	G	C	G	C	1440
GRVER3.SEQ	G	G	G	T	A	T	C	C	A	G	A	C	T	T	G	G	A	A	G	C	T	G	C	G	A	G	T	T	G	C	T	A	G	C	G	C	1440
GRVER2.SEQ	G	G	G	T	A	T	C	C	A	G	A	C	T	T	G	G	A	A	G	C	T	G	C	G	A	G	T	T	G	C	T	A	G	C	G	C	1440
GRVER1.SEQ	G	G	G	T	A	T	C	C	A	G	A	C	T	T	G	G	A	A	G	C	T	G	C	G	A	G	T	T	G	C	T	A	G	C	G	C	1440
YG81-6G1.SEQ	T	G	G	T	A	T	T	C	T	G	A	T	C	T	A	G	A	A	G	C	T	G	G	A	A	A	C	T	G	C	A	T	C	T	G	C	1440
RDVER1.SEQ	C	G	G	C	A	T	T	C	T	G	A	C	T	T	G	G	A	G	C	C	G	G	T	G	A	A	T	T	G	C	A	T	C	T	G	C	1440
RDVER2.SEQ	C	G	G	C	A	T	T	C	T	G	A	C	T	T	G	G	A	G	C	C	G	G	T	G	A	A	T	T	G	C	A	T	C	T	G	C	1440
RDVER3.SEQ	C	G	G	C	A	T	T	C	T	G	A	C	T	T	G	G	A	G	C	C	G	G	T	G	A	A	T	T	G	C	A	T	C	T	G	C	1440
RDVER4.SEQ	C	G	G	C	A	T	T	C	T	G	A	C	T	T	G	G	A	G	C	C	G	G	T	G	A	A	T	T	G	C	A	T	C	T	G	C	1440
RDVER5.SEQ	C	G	G	C	A	T	T	C	T	G	A	C	T	T	G	G	A	G	C	C	G	G	T	G	A	A	T	T	G	C	A	T	C	T	G	C	1440
RD7.SEQ	C	G	G	C	A	T	T	C	T	G	A	C	T	T	G	G	A	G	C	C	G	G	T	G	A	A	T	T	G	C	A	T	C	T	G	C	1440
RDVER51.SEQ	C	G	G	C	A	T	T	C	T	G	A	C	T	T	G	G	A	G	C	C	G	G	T	G	A	A	T	T	G	C	A	T	C	T	G	C	1440
RDVER52.SEQ	C	G	G	C	A	T	T	C	T	G	A	C	T	T	G	G	A	G	C	C	G	G	T	G	A	A	T	T	G	C	A	T	C	T	G	C	1440
RD1561H9.SEQ	C	G	G	C	A	T	T	C	T	G	A	C	T	T	G	G	A	G	C	C	G	G	T	G	A	A	T	T	G	C	A	T	C	T	G	C	1440

FIG. 2 (cont'd)

GRVER51.SEQ	T	T	T	G	T	G	G	T	G	A	A	C	A	C	C	C	G	G	C	A	A	G	G	A	G	A	T	C	A	C	T	G	C	T	A	A	G	G	1480
GR6.SEQ	T	T	T	G	T	G	G	T	G	A	A	C	A	C	C	C	G	G	C	A	A	G	G	A	G	A	T	C	A	C	T	G	C	T	A	A	G	G	1480
GRVER5.SEQ	T	T	T	G	T	G	G	T	G	A	A	C	A	C	C	C	G	G	C	A	A	G	G	A	G	A	T	C	A	C	T	G	C	T	A	A	G	G	1480
GRVER4.SEQ	T	T	T	G	T	G	G	T	G	A	A	C	A	C	C	T	G	G	A	A	G	G	A	G	A	T	C	A	C	T	G	C	T	A	A	G	G	1480	
GRVER3.SEQ	T	T	T	G	T	G	T	G	A	A	C	A	C	C	T	G	G	C	A	A	G	G	A	G	A	T	T	A	C	T	G	C	T	A	A	G	G	1480	
GRVER2.SEQ	T	T	T	G	T	G	T	G	A	A	C	A	C	A	C	A	G	G	C	A	A	G	G	A	A	T	T	A	C	C	G	C	T	A	A	A	G	1480	
GRVER1.SEQ	T	T	T	G	T	G	T	G	A	A	C	A	C	A	C	A	G	G	T	A	A	G	G	A	A	T	T	A	C	C	G	C	T	A	A	A	G	1480	
YG81-6G1.SEQ	T	T	T	G	T	G	T	T	A	A	C	A	C	C	C	G	G	A	A	G	G	A	G	A	T	T	A	C	A	G	C	T	A	A	A	G	1480		
RDVER1.SEQ	T	T	C	G	T	G	T	C	A	A	G	C	A	G	C	T	G	G	C	A	A	G	A	G	A	T	T	A	C	A	C	T	G	C	A	A	G	1480	
RDVER2.SEQ	T	T	C	G	T	G	T	C	A	A	G	C	A	G	C	T	G	G	T	A	A	G	A	G	A	T	T	A	C	A	C	T	G	C	A	A	G	1480	
RDVER3.SEQ	T	T	C	G	T	G	T	C	A	A	G	C	A	G	C	T	G	G	T	A	A	G	A	G	A	T	T	A	C	A	C	C	G	C	A	A	A	G	1480
RDVER4.SEQ	T	T	C	G	T	G	T	C	A	A	G	C	A	G	C	T	G	G	T	A	A	G	A	A	T	T	A	C	A	C	C	G	C	A	A	A	G	1480	
RDVER5.SEQ	T	T	C	G	T	G	T	C	A	A	G	C	A	G	C	T	G	G	T	A	A	G	A	A	T	T	A	C	A	C	C	G	C	A	A	A	G	1480	
RD7.SEQ	T	T	C	G	T	G	T	C	A	A	G	C	A	G	C	T	G	G	T	A	A	G	A	A	T	T	A	C	A	C	C	G	C	A	A	A	G	1480	
RDVER51.SEQ	T	T	C	G	T	G	T	C	A	A	G	C	A	G	C	T	G	G	T	A	A	G	A	A	T	T	A	C	A	C	C	G	C	A	A	A	G	1480	
RDVER52.SEQ	T	T	C	G	T	G	T	C	A	A	G	C	A	G	C	T	G	G	T	A	A	G	A	A	T	T	A	C	A	C	C	G	C	A	A	A	G	1480	
RD1561H9.SEQ	T	T	C	G	T	G	T	C	A	A	G	C	A	G	C	T	G	G	T	A	C	A	G	A	A	T	T	A	C	A	C	C	G	C	A	A	A	G	1480
GRVER51.SEQ	A	G	G	T	C	T	A	C	G	A	C	T	A	T	T	T	G	G	C	C	G	A	G	C	G	C	G	T	G	T	C	T	C	A	C	A	A	1520	
GR6.SEQ	A	G	G	T	C	T	A	C	G	A	C	T	A	T	T	T	G	G	C	C	G	A	G	C	G	C	G	T	G	T	C	T	C	A	C	A	A	1520	
GRVER5.SEQ	A	G	G	T	C	T	A	C	G	A	C	T	A	T	T	T	G	G	C	C	G	A	G	C	G	C	G	T	G	T	C	T	C	A	C	A	A	1520	
GRVER4.SEQ	A	G	G	T	C	T	A	C	G	A	C	T	A	T	T	T	G	G	C	C	G	A	G	C	G	C	G	T	G	T	C	T	C	A	C	A	A	1520	
GRVER3.SEQ	A	G	G	T	C	T	A	C	G	A	C	T	A	T	T	T	G	G	C	C	G	A	G	C	G	C	G	T	G	T	C	T	C	A	C	A	A	1520	
GRVER2.SEQ	A	G	G	T	C	T	A	C	G	A	C	T	A	T	T	T	G	G	C	C	G	A	G	C	G	C	G	T	G	T	C	T	C	A	C	A	A	1520	
GRVER1.SEQ	A	G	G	T	C	T	A	C	G	A	C	T	A	T	T	T	G	G	C	C	G	A	G	C	G	C	G	T	G	T	C	T	C	A	C	A	A	1520	
YG81-6G1.SEQ	A	A	G	T	G	T	A	C	G	A	T	A	T	C	T	T	G	C	G	A	G	A	G	G	T	C	T	C	C	A	T	A	C	A	A	A	1520		
RDVER1.SEQ	A	A	G	T	G	T	A	C	G	A	T	A	T	C	T	T	G	C	G	C	T	G	A	C	G	T	G	T	C	A	G	C	C	A	T	A	A	1520	
RDVER2.SEQ	A	A	G	T	G	T	A	C	G	A	T	A	T	C	T	T	G	C	T	G	A	C	A	C	G	T	G	T	G	A	G	C	C	A	T	A	A	1520	
RDVER3.SEQ	A	A	G	T	G	T	A	C	G	A	T	A	T	C	T	T	G	C	T	G	A	C	A	C	G	T	G	T	G	A	G	C	C	A	T	A	A	1520	
RDVER4.SEQ	A	A	G	T	G	T	A	C	G	A	T	A	T	C	T	T	G	C	T	G	A	C	A	C	G	T	G	T	G	A	G	C	C	A	T	A	A	1520	
RDVER5.SEQ	A	A	G	T	G	T	A	C	G	A	T	A	T	C	T	T	G	C	T	G	A	C	A	C	G	T	G	T	G	A	G	C	C	A	T	A	A	1520	
RD7.SEQ	A	A	G	T	G	T	A	C	G	A	T	A	T	C	T	T	G	C	T	G	A	C	A	C	G	T	G	T	G	A	G	C	C	A	T	A	A	1520	
RDVER51.SEQ	A	A	G	T	G	T	A	C	G	A	T	A	T	C	T	T	G	C	T	G	A	C	A	C	G	T	G	T	G	A	G	C	C	A	T	A	A	1520	
RDVER52.SEQ	A	A	G	T	G	T	A	C	G	A	T	A	T	C	T	T	G	C	T	G	A	C	A	C	G	T	G	T	G	A	G	C	C	A	T	A	A	1520	
RD1561H9.SEQ	A	A	G	T	G	T	A	C	G	A	T	A	T	C	T	T	G	C	T	G	A	C	A	C	G	T	G	T	G	A	G	C	C	A	T	A	A	1520	
GRVER51.SEQ	A	T	A	T	C	T	G	C	G	T	G	G	C	G	C	G	T	T	C	G	T	C	G	C	T	C	G	A	T	T	C	A	T	T	C	A	1560		
GR6.SEQ	A	T	A	T	C	T	G	C	G	T	G	G	C	G	C	G	T	T	C	G	T	C	G	C	T	C	G	A	T	T	C	A	T	T	C	A	1560		
GRVER5.SEQ	A	T	A	T	C	T	G	C	G	T	G	G	C	G	C	G	T	T	C	G	T	C	G	C	T	C	G	A	T	T	C	A	T	T	C	A	1560		
GRVER4.SEQ	A	T	A	T	C	T	G	C	G	T	G	G	C	G	C	G	T	T	C	G	T	C	G	C	T	C	G	A	T	T	C	A	T	T	C	A	1560		
GRVER3.SEQ	A	T	A	T	C	T	G	C	G	T	G	G	C	G	C	G	T	T	C	G	T	C	G	C	T	C	G	A	T	T	C	A	T	T	C	A	1560		
GRVER2.SEQ	G	T	A	C	T	G	C	G	T	G	G	C	G	T	G	C	G	T	T	C	G	T	C	G	T	C	G	A	T	A	G	C	A	T	C	C	T	1560	
GRVER1.SEQ	G	T	A	C	T	G	C	G	T	G	G	C	G	T	G	C	G	T	T	C	G	T	C	G	T	C	G	A	T	A	G	C	A	T	C	C	T	1560	
YG81-6G1.SEQ	G	T	A	T	T	T	G	C	G	T	G	G	A	G	G	T	T	C	G	A	T	T	C	G	T	G	T	A	T	A	G	C	A	T	A	C	A	1560	
RDVER1.SEQ	A	T	A	T	T	T	G	C	G	C	G	T	G	G	C	T	T	T	T	G	T	C	G	A	T	C	T	C	T	A	T	T	C	A	1560				
RDVER2.SEQ	A	T	A	T	T	T	G	C	G	C	G	T	G	G	C	T	T	T	T	T	G	T	G	A	C	T	C	T	A	T	T	C	A	1560					
RDVER3.SEQ	G	T	A	C	T	T	G	C	T	G	G	C	G	C	G	T	T	T	T	T	T	G	T	G	A	C	A	T	T	C	A	T	T	C	A	1560			
RDVER4.SEQ	G	T	A	C	T	T	G	C	T	G	G	C	G	C	G	T	T	T	T	T	T	T	G	T	G	A	T	A	G	C	A	T	T	C	C	T	1560		
RDVER5.SEQ	G	T	A	C	T	T	G	C	T	G	G	C	G	C	G	T	T	T	T	T	T	T	G	T	T	G	A	C	T	C	A	T	C	C	T	1560			
RD7.SEQ	G	T	A	C	T	T	G	C	T	G	G	C	G	C	G	T	T	T	T	T	T	T	G	T	T	G	A	C	T	C	A	T	C	C	T	1560			
RDVER51.SEQ	G	T	A	C	T	T	G	C	T	G	G	C	G	C	G	T	T	T	T	T	T	T	G	T	T	G	A	C	T	C	A	T	C	C	T	1560			
RDVER52.SEQ	G	T	A	C	T	T	G	C	T	G	G	C	G	C	G	T	T	T	T	T	T	T	G	T	T	G	A	C	T	C	A	T	C	C	T	1560			
RD1561H9.SEQ	G	T	A	C	T	T	G	C	T	G	G	C	G	C	G	T	T	T	T	T	T	T	G	T	T	G	A	C	T	C	A	T	C	C	T	1560			

FIG. 2 (cont'd)

GRVER51.SEQ	C	G	C	A	A	C	G	T	T	A	C	C	G	G	T	A	A	G	A	T	C	A	C	T	C	G	T	A	A	A	G	A	G	T	T	G	C	T	G	A	1600	
GR6.SEQ	C	G	C	A	A	C	G	T	T	A	C	C	G	G	T	A	A	G	A	T	C	A	C	T	C	G	T	A	A	A	G	A	G	T	T	G	C	T	G	A	1600	
GRVER5.SEQ	C	G	C	A	A	C	G	T	T	A	C	C	G	G	T	A	A	G	A	T	C	A	C	T	C	G	T	A	A	A	G	A	G	T	T	G	C	T	G	A	1600	
GRVER4.SEQ	C	G	C	A	A	C	G	T	T	A	C	C	G	G	T	A	A	G	A	T	C	A	C	T	C	G	T	A	A	A	G	A	A	T	T	G	C	T	G	A	1600	
GRVER3.SEQ	C	G	C	A	A	C	G	T	T	A	C	C	G	G	C	A	A	G	A	T	C	A	C	T	C	G	T	A	A	A	G	A	G	T	T	G	C	T	G	A	1600	
GRVER2.SEQ	C	G	C	A	A	T	G	T	C	A	C	C	G	G	C	A	A	A	A	T	T	A	C	T	C	G	T	A	A	G	A	G	A	G	T	T	G	C	T	G	A	1600
GRVER1.SEQ	C	G	C	A	A	T	G	T	C	A	C	C	G	G	C	A	A	A	A	T	T	A	C	T	C	G	T	A	A	G	A	G	A	G	T	T	G	C	T	G	A	1600
YG81-6G1.SEQ	A	G	G	A	A	T	G	T	T	A	C	A	G	G	T	A	A	A	A	T	T	A	C	A	A	G	A	A	A	G	A	A	C	T	T	C	T	G	A	1600		
RDVER1.SEQ	C	G	T	A	A	C	G	T	G	A	C	T	G	G	T	A	A	G	A	T	C	A	C	C	G	C	A	A	A	G	A	A	C	T	G	T	T	G	A	1600		
RDVER2.SEQ	C	G	T	A	A	T	G	T	G	A	C	T	G	G	T	A	A	A	A	T	T	A	C	C	G	C	A	A	G	A	A	C	T	G	T	T	G	A	1600			
RDVER3.SEQ	C	G	T	A	A	T	G	T	G	A	C	T	G	G	T	A	A	A	A	T	T	A	C	C	G	C	A	A	G	A	A	C	T	G	T	T	G	A	1600			
RDVER4.SEQ	C	G	C	A	A	T	G	T	G	A	C	T	G	G	C	A	A	A	A	T	T	A	C	C	G	C	A	A	G	A	A	C	T	G	T	T	G	A	1600			
RDVER5.SEQ	C	G	T	A	A	C	G	T	A	A	C	A	G	G	C	A	A	A	A	T	T	A	C	C	G	C	A	A	G	A	G	C	T	G	T	T	G	A	1600			
RD7.SEQ	C	G	T	A	A	C	G	T	A	A	C	A	G	G	C	A	A	A	A	T	T	A	C	C	G	C	A	A	G	A	G	C	T	G	T	T	G	A	1600			
RDVER51.SEQ	C	G	T	A	A	C	G	T	A	A	C	A	G	G	C	A	A	A	A	T	T	A	C	C	G	C	A	A	G	A	G	C	T	G	T	T	G	A	1600			
RDVER52.SEQ	C	G	T	A	A	C	G	T	A	A	C	A	G	G	C	A	A	A	A	T	T	A	C	C	G	C	A	A	G	A	G	C	T	G	T	T	G	A	1600			
RD1561H9.SEQ	C	G	T	A	A	C	G	T	A	A	C	A	G	G	C	A	A	A	A	T	T	A	C	C	G	C	A	A	G	A	G	C	T	G	T	T	G	A	1600			

GRVER51.SEQ	A	G	C	A	A	C	T	C	T	C	G	A	A	A	A	A	G	C	T	G	G	C	G	G	C																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					</
-------------	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	----

FIG. 2 (cont'd)

GRVER51.SEQ	L	V	D	V	V	G	D	E	S	L	S	Y	K	E	F	F	E	A	T	V	L	L	A	Q	S	L	H	N	C	G	Y	K	M	N	D	V	V	S	I	C	238
GR6.SEQ	L	V	D	V	V	G	D	E	S	L	S	Y	K	E	F	F	E	A	T	V	L	L	A	Q	S	L	H	N	C	G	Y	K	M	N	D	V	V	S	I	C	238
GRVER5.SEQ	L	V	D	V	V	G	D	E	S	L	S	Y	K	E	F	F	E	A	T	V	L	L	A	Q	S	L	H	N	C	G	Y	K	M	N	D	V	V	S	I	C	238
GRVER4.SEQ	L	V	D	V	V	G	D	E	S	L	S	Y	K	E	F	F	E	A	T	V	L	L	A	Q	S	L	H	N	C	G	Y	K	M	N	D	V	V	S	I	C	238
GRVER3.SEQ	L	V	D	V	V	G	D	E	S	L	S	Y	K	E	F	F	E	A	T	V	L	L	A	Q	S	L	H	N	C	G	Y	K	M	N	D	V	V	S	I	C	238
GRVER2.SEQ	L	V	D	V	V	G	D	E	S	L	S	Y	K	E	F	F	E	A	T	V	L	L	A	Q	S	L	H	N	C	G	Y	K	M	N	D	V	V	S	I	C	238
GRVER1.SEQ	L	V	D	V	V	G	D	E	S	L	S	Y	K	E	F	F	E	A	T	V	L	L	A	Q	S	L	H	N	C	G	Y	K	M	N	D	V	V	S	I	C	238
YG91-6G1.SEQ	L	V	D	V	V	G	D	E	S	L	S	Y	K	E	F	F	E	A	T	V	L	L	A	Q	S	L	H	N	C	G	Y	K	M	N	D	V	V	S	I	C	238
RDVER1.SEQ	L	V	D	V	V	G	D	E	S	L	S	Y	K	E	F	F	E	A	T	V	L	L	A	Q	S	L	H	N	C	G	Y	K	M	N	D	V	V	S	I	C	238
RDVER2.SEQ	L	V	D	V	V	G	D	E	S	L	S	Y	K	E	F	F	E	A	T	V	L	L	A	Q	S	L	H	N	C	G	Y	K	M	N	D	V	V	S	I	C	238
RDVER3.SEQ	L	V	D	V	V	G	D	E	S	L	S	Y	K	E	F	F	E	A	T	V	L	L	A	Q	S	L	H	N	C	G	Y	K	M	N	D	V	V	S	I	C	238
RDVER4.SEQ	L	V	D	V	V	G	D	E	S	L	S	Y	K	E	F	F	E	A	T	V	L	L	A	Q	S	L	H	N	C	G	Y	K	M	N	D	V	V	S	I	C	238
RDVER5.SEQ	L	V	D	V	V	G	D	E	S	L	S	Y	K	E	F	F	E	A	T	V	L	L	A	Q	S	L	H	N	C	G	Y	K	M	N	D	V	V	S	I	C	238
RD7.SEQ	L	V	D	V	V	G	D	E	S	L	S	Y	K	E	F	F	E	A	T	V	L	L	A	Q	S	L	H	N	C	G	Y	K	M	N	D	V	V	S	I	C	238
RDVER51.SEQ	L	V	D	V	V	G	D	E	S	L	S	Y	K	E	F	F	E	A	T	V	L	L	A	Q	S	L	H	N	C	G	Y	K	M	N	D	V	V	S	I	C	238
RDVER52.SEQ	L	V	D																																						

GRVER51.SEQ	A	E	N	N	T	R	F	F	I	P	V	I	A	A	W	Y	I	G	M	I	V	A	P	V	N	S	Y	I	P	D	E	L	C	K	V	M	G	I	S	358
GR6.SEQ	A	E	N	N	T	R	F	F	I	P	V	I	A	A	W	Y	I	G	M	I	V	A	P	V	N	S	Y	I	P	D	E	L	C	K	V	M	G	I	S	358
GRVER5.SEQ	A	E	N	N	T	R	F	F	I	P	V	I	A	A	W	Y	I	G	M	I	V	A	P	V	N	S	Y	I	P	D	E	L	C	K	V	M	G	I	S	358
GRVER4A.SEQ	A	E	N	N	T	R	F	F	I	P	V	I	A	A	W	Y	I	G	M	I	V	A	P	V	N	S	Y	I	P	D	E	L	C	K	V	M	G	I	S	358
GRVER3.SEQ	A	E	N	N	T	R	F	F	I	P	V	I	A	A	W	Y	I	G	M	I	V	A	P	V	N	S	Y	I	P	D	E	L	C	K	V	M	G	I	S	358
GRVER2.SEQ	A	E	N	N	T	R	F	F	I	P	V	I	A	A	W	Y	I	G	M	I	V	A	P	V	N	S	Y	I	P	D	E	L	C	K	V	M	G	I	S	358
GRVER1.SEQ	A	E	N	N	T	R	F	F	I	P	V	I	A	A	W	Y	I	G	M	I	V	A	P	V	N	S	Y	I	P	D	E	L	C	K	V	M	G	I	S	358
YG81-6G1.SEQ	A	E	N	N	T	R	F	F	I	P	V	I	A	A	W	Y	I	G	M	I	V	A	P	V	N	S	Y	I	P	D	E	L	C	K	V	M	G	I	S	358
RDVER1.SEQ	A	E	N	N	T	R	F	F	I	P	V	I	A	A	W	Y	I	G	M	I	V	A	P	V	N	S	Y	I	P	D	E	L	C	K	V	M	G	I	S	358
RDVER2.SEQ	A	E	N	N	T	R	F	F	I	P	V	I	A	A	W	Y	I	G	M	I	V	A	P	V	N	S	Y	I	P	D	E	L	C	K	V	M	G	I	S	358
RDVER3.SEQ	A	E	N	N	T	R	F	F	I	P	V	I	A	A	W	Y	I	G	M	I	V	A	P	V	N	S	Y	I	P	D	E	L	C	K	V	M	G	I	S	358
RDVER4.SEQ	A	E	N	N	T	R	F	F	I	P	V	I	A	A	W	Y	I	G	M	I	V	A	P	V	N	S	Y	I	P	D	E	L	C	K	V	M	G	I	S	358
RDVER5.SEQ	A	E	N	N	T	R	F	F	I	P	V	I	A	A	W	Y	I	G	M	I	V	A	P	V	N	S	Y	I	P	D	E	L	C	K	V	M	G	I	S	358
RD7.SEQ	A	E	N	N	T	R	F	F	I	P	V	I	A	A	W	Y	I	G	M	I	V	A	P	V	N	S	Y	I	P	D	E	L	C	K	V	M	G	I	S	358
RDVER51.SEQ	A	E	N	N	T	R	F	F	I	P	V	I	A	A	W	Y	I	G	M	I	V	A	P	V	N	S	Y	I	P	D	E	L	C	K	V	M	G	I	S	358
RDVER52.SEQ	A	E	N	N	T	R	F	F	I	P	V	I	A	A	W	Y	I	G</																						

GRVER51.SEQ	L	P	K	G	V	M	Q	T	H	Q	N	I	C	V	R	L	I	H	A	L	D	P	R	V	G	T	Q	L	I	P	G	V	T	V	L	V	L	P	F	718	
GR6.SEQ	L	P	K	G	V	M	Q	T	H	Q	N	I	C	V	R	L	I	H	A	L	D	P	R	V	G	T	Q	L	I	S	P	G	V	T	V	L	V	L	P	F	718
GRVER5.SEQ	L	P	K	G	V	M	Q	T	H	Q	N	I	C	V	R	L	I	H	A	L	D	P	R	V	G	T	Q	L	I	P	G	V	T	V	L	V	L	P	F	718	
GRVER4.5EQ	L	P	K	G	V	M	Q	T	H	Q	N	I	C	V	R	L	I	H	A	L	D	P	R	V	G	T	Q	L	I	P	G	V	T	V	L	V	L	P	F	718	
GRVER3.SEQ	L	P	K	G	V	M	Q	T	H	Q	N	I	C	V	R	L	I	H	A	L	D	P	R	V	G	T	Q	L	I	P	G	V	T	V	L	V	L	P	F	718	
GRVER2.SEQ	L	P	K	G	V	M	Q	T	H	Q	N	I	C	V	R	L	I	H	A	L	D	P	R	V	G	T	Q	L	I	P	G	V	T	V	L	V	L	P	F	718	
GRVER1.SEQ	L	P	K	G	V	M	Q	T	H	Q	N	I	C	V	R	L	I	H	A	L	D	P	R	V	G	T	Q	L	I	P	G	V	T	V	L	V	L	P	F	718	
YG81-6G1.SEQ	L	P	K	G	V	M	Q	T	H	Q	N	I	C	V	R	L	I	H	A	L	D	P	R	A	G	T	Q	L	I	P	G	V	T	V	L	V	L	P	F	718	
RDVER1.SEQ	L	P	K	G	V	M	Q	T	H	Q	N	I	C	V	R	L	I	H	A	L	D	P	R	Y	G	T	Q	L	I	P	G	V	T	V	L	V	L	P	F	718	
RDVER2.SEQ	L	P	K	G	V	M	Q	T	H	Q	N	I	C	V	R	L	I	H	A	L	D	P	R	Y	G	T	Q	L	I	P	G	V	T	V	L	V	L	P	F	718	
RDVER3.SEQ	L	P	K	G	V	M	Q	T	H	Q	N	I	C	V	R	L	I	H	A	L	D	P	R	Y	G	T	Q	L	I	P	G	V	T	V	L	V	L	P	F	718	
RDVER4.SEQ	L	P	K	G	V	M	Q	T	H	Q	N	I	C	V	R	L	I	H	A	L	D	P	R	Y	G	T	Q	L	I	P	G	V	T	V	L	V	L	P	F	718	
RDVER5.SEQ	L	P	K	G	V	M	Q	T	H	Q	N	I	C	V	R	L	I	H	A	L	D	P	R	Y	G	T	Q	L	I	P	G	V	T	V	L	V	L	P	F	718	
RD7.SEQ	L	P	K	G	V	M	Q	T	H	Q	N	I	C	V	R	L	I	H	A	L	D	P	R	Y	G	T	Q	L	I	P	G	V	T	V	L	V	L	P	F	718	
RDVER51.SEQ	L	P	K	G	V	M	Q	T	H	Q	N	I	C	V	R	L	I	H	A	L	D	P	R	Y	G	T	Q	L	I	P	G	V	T	V	L	V	L	P	F	718	
RDVER52.SEQ	L	P	K	G	V	M	Q	T	H	Q	N	I	C	V	R	L	I	H	A	L	D	P	R	Y	G	T	Q	L	I	P	G	V	T	V	L	V	L	P	F	718	
RD1561H9.SEQ	L	P	K	G	V	M	Q	T	H	Q	N	I	C	V	R	L	I	H	A	L	D	P	R	Y	G	T	Q	L	I	P	G	V	T	V	L	V	L	P	F	718	

FIG. 3 (cont'd)

GRVER51.SEQ	F	V	V	K	Q	P	G	K	E	I	T	A	K	E	V	Y	D	Y	L	A	E	R	V	S	H	T	K	Y	L	R	G	G	V	R	F	V	D	S	I	P	1558
GR6.SEQ	F	V	V	K	Q	P	G	K	E	I	T	A	K	E	V	Y	D	Y	L	A	E	R	V	S	H	T	K	Y	L	R	G	G	V	R	F	V	D	S	I	P	1558
GRVER5.SEQ	F	V	V	K	Q	P	G	K	E	I	T	A	K	E	V	Y	D	Y	L	A	E	R	V	S	H	T	K	Y	L	R	G	G	V	R	F	V	D	S	I	P	1558
GRVER4.SEQ	F	V	V	K	Q	P	G	K	E	I	T	A	K	E	V	Y	D	Y	L	A	E	R	V	S	H	T	K	Y	L	R	G	G	V	R	F	V	D	S	I	P	1558
GRVER3.SEQ	F	V	V	K	Q	P	G	K	E	I	T	A	K	E	V	Y	D	Y	L	A	E	R	V	S	H	T	K	Y	L	R	G	G	V	R	F	V	D	S	I	P	1558
GRVER2.SEQ	F	V	V	K	Q	P	G	K	E	I	T	A	K	E	V	Y	D	Y	L	A	E	R	V	S	H	T	K	Y	L	R	G	G	V	R	F	V	D	S	I	P	1558
GRVER1.SEQ	F	V	V	K	Q	P	G	K	E	I	T	A	K	E	V	Y	D	Y	L	A	E	R	V	S	H	T	K	Y	L	R	G	G	V	R	F	V	D	S	I	P	1558
YG81-6G1.SEQ	F	V	V	K	Q	P	G	K	E	I	T	A	K	E	V	Y	D	Y	L	A	E	R	V	S	H	T	K	Y	L	R	G	G	V	R	F	V	D	S	I	P	1558
RDVER1.SEQ	F	V	V	K	Q	P	G	K	E	I	T	A	K	E	V	Y	D	Y	L	A	E	R	V	S	H	T	K	Y	L	R	G	G	V	R	F	V	D	S	I	P	1558
RDVER2.SEQ	F	V	V	K	Q	P	G	K	E	I	T	A	K	E	V	Y	D	Y	L	A	E	R	V	S	H	T	K	Y	L	R	G	G	V	R	F	V	D	S	I	P	1558
RDVER3.SEQ	F	V	V	K	Q	P	G	K	E	I	T	A	K	E	V	Y	D	Y	L	A	E	R	V	S	H	T	K	Y	L	R	G	G	V	R	F	V	D	S	I	P	1558
RDVER4.SEQ	F	V	V	K	Q	P	G	K	E	I	T	A	K	E	V	Y	D	Y	L	A	E	R	V	S	H	T	K	Y	L	R	G	G	V	R	F	V	D	S	I	P	1558
RDVER5.SEQ	F	V	V	K	Q	P	G	K	E	I	T	A	K	E	V	Y	D	Y	L	A	E	R	V	S	H	T	K	Y	L	R	G	G	V	R	F	V	D	S	I	P	1558
RD7.SEQ	F	V	V	K	Q	P	G	K	E	I	T	A	K	E	V	Y	D	Y	L	A	E	R	V	S	H	T	K	Y	L	R	G	G	V	R	F	V	D	S	I	P	1558
RDVER51.SEQ	F	V	V	K	Q	P	G	K	E	I	T	A	K	E	V	Y	D	Y	L	A	E	R	V	S	H	T	K	Y	L	R	G	G	V	R	F	V	D	S	I	P	1558
RDVER52.SEQ	F	V	V	K	Q	P	G	K	E	I	T	A	K	E	V	Y	D	Y	L	A	E	R	V	S	H	T	K	Y	L	R	G	G	V	R	F	V	D	S	I	P	1558
RD1561H9.SEQ	F	V	V	K	Q	P	G	K	E	I	T	A	K	E	V	Y	D	Y	L	A	E	R	V	S	H	T	K	Y	L	R	G	G	V	R	F	V	D	S	I	P	1558

GRVER51.SEQ	R	N	V	T	G	K	I	T	R	K	E	L	L	K	Q	L	L	E	K	A	G																				1624
GR6.SEQ	R	N	V	T	G	K	I	T	R	K	E	L	L	K	Q	L	L	E	K	A	G																				1624
GRVER5.SEQ	R	N	V	T	G	K	I	T	R	K	E	L	L	K	Q	L	L	E	K	A	G																				1624
GRVER4.SEQ	R	N	V	T	G	K	I	T	R	K	E	L	L	K	Q	L	L	E	K	A	G																				1624
GRVER3.SEQ	R	N	V	T	G	K	I	T	R	K	E	L	L	K	Q	L	L	E	K	A	G																				1624
GRVER2.SEQ	R	N	V	T	G	K	I	T	R	K	E	L	L	K	Q	L	L	E	K	A	G																				1624
GRVER1.SEQ	R	N	V	T	G	K	I	T	R	K	E	L	L	K	Q	L	L	E	K	A	G																				1624
YG81-6G1.SEQ	R	N	V	T	G	K	I	T	R	K	E	L	L	K	Q	L	L	E	K	A	G																				1624
RDVER1.SEQ	R	N	V	T	G	K	I	T	R	K	E	L	L	K	Q	L	L	E	K	A	G																				1624
RDVER2.SEQ	R	N	V	T	G	K	I	T	R	K	E	L	L	K	Q	L	L	E	K	A	G																				1624
RDVER3.SEQ	R	N	V	T	G	K	I	T	R	K	E	L	L	K	Q	L	L	E	K	A	G																				1624
RDVER4.SEQ	R	N	V	T	G	K	I	T	R	K	E	L	L	K	Q	L	L	E	K	A	G																				1624
RDVER5.SEQ	R	N	V	T	G	K	I	T	R	K	E	L	L	K	Q	L	L	E	K	A	G																				1624
RD7.SEQ	R	N	V	T	G	K	I	T	R	K	E	L	L	K	Q	L	L	E	K	A	G																				1624
RDVER51.SEQ	R	N	V	T	G	K	I	T	R	K	E	L	L	K	Q	L	L	E	K	A	G																				1624
RDVER52.SEQ	R	N	V	T	G	K	I	T	R	K	E	L	L	K	Q	L	L	E	K	A	G																				1624
RD1561H9.SEQ	R	N	V	T	G	K	I	T	R	K	E	L	L	K	Q	L	L	E	K	A	G																				1624

FIG. 3 (cont'd)

RELLUC.SEQ A T G A C T T C G A A A G T T T A T G A T C C A G A A C A A A G G A A A C G G A 40
 RLUCVER1.SEQ A T G G C T C C C A A G G T G T A C G A C C C C G A G C A G C G C A A G C G C A 40
 RLUCVER2.SEQ A T G G C T T C G C C T T C C A A G G T G T A C G A C C C C G A G C A A C G C A A C G C A 40
 RLUCFINL.SEQ A T G G C T T C C A A G G T G T A C G A C C C C G A G C A A C G C A A A C G C A 40

RELLUC.SEQ T G A T A A C T G G T C C G C A G T G G T G G G C C A G A T G T A A A C A A A T 80
 RLUCVER1.SEQ T G A T C A C C G G C C C T C A G T G G T G G G C C C G C T G C A A G C A G A T 80
 RLUCVER2.SEQ T G A T C A C T G G C C T C A G T G G T G G G C T C G C T G C A A G C A A A T 80
 RLUCFINL.SEQ T G A T C A C T G G C C T C A G T G G T G G G C C T C G C T G C A A G C A A A T 80

RELLUC.SEQ G A A T G T T C T T G A T T C A T T T A T T A T T A T T A T G A T T C A G A A 120
 RLUCVER1.SEQ G A A C G T G C T G G A C T C C T T C A T C A A C T A C T A G A C A G C G A G 120
 RLUCVER2.SEQ G A A C G T G C T G G A C T C C T T C A T C A A C T A C T A T G A T T C C G A G 120
 RLUCFINL.SEQ G A A C G T G C T G G A C T C C T T C A T C A A C T A C T A T G A T T C C G A G 120

RELLUC.SEQ A A A C A A C T G G T C C G A A A A T G C T G T T A T T T T T T A C A T G G T A A C G 160
 RLUCVER1.SEQ A A G C A C G C C G A G A A C G C G T G A T C T T C T G C A C G G C A A C G 160
 RLUCVER2.SEQ A A G C A C G C C G A G A A C G C G T G A T T T T T C T G C A T G G T A A C G 160
 RLUCFINL.SEQ A A G C A C G C C G A G A A C G C G T G A T T T T T C T G C A T G G T A A C G 160

RELLUC.SEQ C G G C C T C T T C T T A T T T A T G G C G A C A T G T T G T G C C A C A T A T 200
 RLUCVER1.SEQ C G C C T C C A G C T A C C T G T G G A G G C A C G T G T G T G C C T C A C A T 200
 RLUCVER2.SEQ C T G C C T C C A G C T A C C T G T G G A G G C A C G T G T G C C T C A C A T 200
 RLUCFINL.SEQ C T G C C T C C A G C T A C C T G T G G A G G C A C G T G T G C C T C A C A T 200

RELLUC.SEQ T G A G C C A G T A G C G C G G T G T A T T A T A C C A G A T C T T A T T G G T 240
 RLUCVER1.SEQ C G A G C C C G T G G C C C G C T G C A T C A T C C C T G A C T G A T C G G C 240
 RLUCVER2.SEQ C G A G C C C G T G G C C T C G C T G C A T C A T C C C T G A C T G A T C G C A 240
 RLUCFINL.SEQ C G A G C C C G T G G C T A G A T G C A T C A T C C C T G A T C T G A T C G G A 240

RELLUC.SEQ A T G G G C A A A T C A G G C A A A T C T G G T A A T G G T T C T T A T A G G T 280
 RLUCVER1.SEQ A T G G G C A A G T C C G G C A A G A G C G G C A A C G G C T C C T A C C G C C 280
 RLUCVER2.SEQ A T G G G T A A G T C C G G C A A G A G C G G A A T G G C T C A T A T C G C C 280
 RLUCFINL.SEQ A T G G G T A A G T C C G G C A A G A G C G G A A T G G C T C A T A T C G C C 280

RELLUC.SEQ T A C T T G A T C A T T A C A A A T A T C T T A C T G C A T G G T T T G A A C T 320
 RLUCVER1.SEQ T C T G G A C C A C T A C A A G T A C C T G A C C G C C T G G T T C G A G C T 320
 RLUCVER2.SEQ T C T G G A T C A C T A C A A G T A C C T C A C C G C C T T G G T T C G A G C T 320
 RLUCFINL.SEQ T C T G G A T C A C T A C A A G T A C C T C A C C G C C T T G G T T C G A G C T 320

RELLUC.SEQ T C T T A A T T T A C C A A G A A G A T C A T T T T G T G G G C C A T G A T 360
 RLUCVER1.SEQ C T G A A C C T G C C C A A G A A G A T C A T C T T C G T G G G C C A C G A C 360
 RLUCVER2.SEQ C T G A A C C T T C A A A G A A A A T C A T C T T T G T G G G C C A C G A C 360
 RLUCFINL.SEQ C T G A A C C T T C C A A G A A A A T C A T C T T T G T G G G C C A C G A C 360

RELLUC.SEQ T G G G G T G C T T G T T T G G C A T T T C A T T A T A G C T A T G A G C A T C 400
 RLUCVER1.SEQ T G G G G A G C C T G C C T G G C C T T C A C T A C T C C T A C G A G C A C C 400
 RLUCVER2.SEQ T G G G G G C T T G T C T G G C C T T T C A C T A C T C C T A C G A G C A C C 400
 RLUCFINL.SEQ T G G G G G C C T T G T C T G G C C T T T C A C T A C T C C T A C G A G C A C C 400

RELLUC.SEQ A A G A T A A G A T C A A A G C A A T A G T T C A C G C T G A A G T G T A G T 440
 RLUCVER1.SEQ A G A C A A G A T C A A G G C C A T C G T G C A C G C C G A G A G C G T G G T 440
 RLUCVER2.SEQ A A G A C A A G A T C A A G G C C A T C G T C C A T G C T G A G A G T G T C G T 440
 RLUCFINL.SEQ A A G A C A A G A T C A A G G C C A T C G T C C A T G C T G A G A G T G T C G T 440

RELLUC.SEQ	A	G	A	T	G	T	G	A	T	T	G	A	A	T	C	A	T	G	G	G	A	T	G	A	A	T	G	C	C	T	G	A	T	A	T	T	G	C	A	480
RLUCVER1.SEQ	G	G	A	C	G	T	G	A	T	C	G	A	G	T	C	C	T	G	G	G	A	C	G	A	G	T	G	G	C	T	G	A	C	A	T	C	G	A	G	480
RLUCVER2.SEQ	G	G	A	C	G	T	G	A	T	C	G	A	G	T	C	C	T	G	G	G	A	C	G	A	G	T	G	G	C	T	G	A	C	A	T	C	G	A	G	480
RLUCFINL.SEQ	G	G	A	C	G	T	G	A	T	C	G	A	G	T	C	C	T	G	G	G	A	C	G	A	G	T	G	G	C	T	G	A	C	A	T	C	G	A	G	480
RELLUC.SEQ	G	A	A	G	A	T	A	T	T	G	C	G	T	T	G	A	T	C	A	A	A	T	C	T	G	A	A	G	A	G	G	A	G	A	A	A	A	A	A	520
RLUCVER1.SEQ	A	G	G	A	C	A	T	C	G	C	C	C	T	G	A	T	C	A	A	G	A	G	C	A	G	A	G	G	G	C	G	A	G	A	A	A	A	A	520	
RLUCVER2.SEQ	A	G	G	A	T	A	T	C	G	C	C	C	T	G	A	T	C	A	A	G	A	G	C	A	G	A	G	G	G	C	G	A	G	A	A	A	A	A	520	
RLUCFINL.SEQ	A	G	G	A	T	A	T	C	G	C	C	C	T	G	A	T	C	A	A	G	A	G	C	A	G	A	G	G	G	C	G	A	G	A	A	A	A	A	520	
RELLUC.SEQ	T	G	G	T	T	T	T	G	G	A	G	A	A	T	A	A	C	T	T	C	T	T	C	G	T	G	G	A	A	C	C	A	T	G	T	T	G	C	C	560
RLUCVER1.SEQ	T	G	G	T	T	T	T	G	G	A	G	A	A	T	A	A	C	T	T	C	T	T	C	G	T	G	G	A	A	C	C	A	T	G	T	T	G	C	C	560
RLUCVER2.SEQ	T	G	G	T	T	T	T	G	G	A	G	A	A	T	A	A	C	T	T	C	T	T	C	G	T	G	G	A	A	C	C	A	T	G	T	T	G	C	C	560
RLUCFINL.SEQ	T	G	G	T	T	T	T	G	G	A	G	A	A	T	A	A	C	T	T	C	T	T	C	G	T	G	G	A	A	C	C	A	T	G	T	T	G	C	C	560
RELLUC.SEQ	A	T	C	A	A	A	A	A	T	C	A	T	G	A	G	A	A	A	G	T	T	A	G	A	C	C	A	G	A	G	A	A	T	T	T	G	C	A	600	
RLUCVER1.SEQ	C	A	G	C	A	A	G	A	T	C	A	T	G	C	G	C	A	A	G	C	T	G	A	G	C	C	T	G	A	G	A	G	T	T	C	G	C	C	600	
RLUCVER2.SEQ	A	G	C	A	A	G	A	T	C	A	T	G	C	G	C	A	A	A	C	T	G	A	G	C	C	T	G	A	G	A	G	T	T	C	G	C	T	C	600	
RLUCFINL.SEQ	A	G	C	A	A	G	A	T	C	A	T	G	C	G	C	A	A	A	C	T	G	A	G	C	C	T	G	A	G	A	G	T	T	C	G	C	T	C	600	
RELLUC.SEQ	G	C	A	T	A	T	C	T	T	G	A	A	C	C	A	T	T	C	A	A	G	A	A	G	G	T	G	A	A	G	G	T	G	A	A	G	T	T	G	640
RLUCVER1.SEQ	G	C	C	T	A	C	C	T	G	A	G	C	C	C	T	T	C	A	A	G	G	A	A	G	G	G	C	G	A	G	T	T	G	C	G	C	C	C	640	
RLUCVER2.SEQ	G	C	C	T	A	C	C	T	G	A	G	C	C	C	T	T	C	A	A	G	G	A	A	G	G	G	C	G	A	G	T	T	A	G	A	C	C	C	640	
RLUCFINL.SEQ	G	C	C	T	A	C	C	T	G	A	G	C	C	C	T	T	C	A	A	G	G	A	A	G	G	G	C	G	A	G	T	T	A	G	A	C	C	C	640	
RELLUC.SEQ	G	T	C	C	A	A	C	A	T	T	A	T	C	A	T	G	G	C	C	C	T	C	G	T	G	A	A	A	T	C	C	G	T	A	G	T	A	A	680	
RLUCVER1.SEQ	G	C	C	C	T	A	C	C	T	G	T	C	C	T	G	G	C	C	C	G	C	G	A	G	A	T	C	C	C	T	T	G	T	G	A	A	A	680		
RLUCVER2.SEQ	G	C	C	C	T	A	C	C	T	G	T	C	C	T	G	G	C	C	C	G	C	G	A	G	A	T	C	C	C	T	T	C	G	T	A	A	A	680		
RLUCFINL.SEQ	G	C	C	C	T	A	C	C	T	G	T	C	C	T	G	G	C	C	C	G	C	G	A	G	A	T	C	C	C	T	T	C	G	T	A	A	A	680		
RELLUC.SEQ	A	G	G	T	G	G	T	A	A	A	C	C	C	T	G	A	C	G	T	T	G	T	A	C	A	A	T	T	G	T	A	G	A	A	T	T	A	T	720	
RLUCVER1.SEQ	G	G	G	C	G	C	A	A	G	C	C	C	C	G	A	C	G	T	G	T	G	C	A	G	A	T	T	G	T	A	G	A	A	C	T	A	C	720		
RLUCVER2.SEQ	G	G	G	A	G	G	C	A	A	G	C	C	C	G	A	C	G	T	C	G	A	T	G	T	G	T	G	C	G	C	A	A	C	T	A	C	720			
RLUCFINL.SEQ	G	G	G	A	G	G	C	A	A	G	C	C	C	G	A	C	G	T	C	G	A	T	T	G	T	G	C	G	C	A	A	C	T	A	C	720				
RELLUC.SEQ	A	A	T	G	C	T	T	A	T	C	T	A	C	G	T	G	C	A	A	G	T	G	A	T	T	A	C	C	A	A	A	A	A	T	G	T	760			
RLUCVER1.SEQ	A	A	C	G	C	T	A	C	C	T	T	G	C	G	C	C	A	G	C	G	A	C	G	A	C	C	T	G	C	T	A	A	G	A	T	G	760			
RLUCVER2.SEQ	A	A	C	G	C	T	A	C	C	T	T	C	G	G	G	C	C	A	G	C	A	G	C	A	G	A	T	T	G	C	T	A	A	G	A	T	G	760		
RLUCFINL.SEQ	A	A	C	G	C	T	A	C	C	T	T	C	G	G	G	C	C	A	G	C	A	G	C	A	G	A	T	T	G	C	T	A	A	G	A	T	G	760		
RELLUC.SEQ	T	T	A	T	T	G	A	A	T	C	G	A	T	C	C	A	G	A	T	T	C	C	T	A	A	T	T	G	C	T	A	T	T	G	T	800				
RLUCVER1.SEQ	C	A	T	C	G	A	G	T	C	C	G	A	C	C	C	T	G	G	C	T	T	C	T	C	C	A	A	G	C	C	A	T	G	T	800					
RLUCVER2.SEQ	C	A	T	C	G	A	G	T	C	C	G	A	C	C	C	T	G	G	G	T	T	C	T	T	T	C	C	A	A	C	G	C	T	A	T	T	G	800		
RLUCFINL.SEQ	C	A	T	C	G	A	G	T	C	C	G	A	C	C	C	T	G	G	G	T	T	C	T	T	T	C	C	A	A	C	G	C	T	A	T	T	G	800		
RELLUC.SEQ	T	G	A	A	G	G	C	G	C	C	A	A	G	A	G	T	T	C	C	T	A	A	T	A	C	T	G	A	A	T	T	T	G	T	C	A	A	840		
RLUCVER1.SEQ	C	G	A	G	G	A	G	C	C	A	A	G	A	G	T	T	C	C	C	A	A	C	A	C	C	G	A	G	T	T	C	G	T	G	A	A	840			
RLUCVER2.SEQ	C	G	A	G	G	A	G	C	C	T	A	A	G	A	G	T	T	C	C	T	A	A	C	A	C	C	G	A	G	T	T	C	G	T	G	A	A	840		
RLUCFINL.SEQ	C	G	A	G	G	A	G	C	C	T	A	A	G	A	G	T	T	C	C	T	A	A	C	A	C	C	G	A	G	T	T	C	G	T	G	A	A	840		
RELLUC.SEQ	G	T	A	A	A	G	G	T	C	T	T	C	A	T	T	T	T	C	G	C	A	A	G	A	G	A	T	G	C	A	C	C	T	G	A	T	G	880		
RLUCVER1.SEQ	T	G	A	A	G	G	C	C	T	T	G	C	A	C	T	T	C	C	C	A	G	A	G	G	A	C	G	C	C	C	T	G	A	C	G	880				
RLUCVER2.SEQ	T	G	A	A	G	G	C	C	T	T	C	A	C	T	T	C	A	G	C	A	G	A	G	A	C	G	C	C	C	C	A	G	A	T	G	880				
RLUCFINL.SEQ	T	G	A	A	G	G	C	C	T	T	C	A	C	T	T	C	A	G	C	A	G	A	G	A	C	G	C	C	C	C	A	G	A	T	G	880				

FIG. 7 (cont'd)

RELLUC.SEQ	A A A T G G G A A A A T A T A T C A A A T C G T T C G T T G A G C G A G T T C T	920
RLUCVER1.SEQ	<u>G</u> A T G G G <u>C</u> A A <u>G</u> T A <u>C</u> A T C A A <u>G A G C</u> T T C G T <u>G</u> G A G C G <u>C</u> G T <u>G</u> C T	920
RLUCVER2.SEQ	A A T G G G T A A <u>G</u> T A <u>C</u> A T C A A <u>G A G C</u> T T C G T <u>G</u> G A G C G <u>C</u> G T <u>G</u> C T	920
RLUCFINL.SEQ	A A T G G G <u>T</u> A A <u>G</u> T A <u>C</u> A T C A A <u>G A G C</u> T T C G T <u>G</u> G A G C G <u>C</u> G T <u>G</u> C T	920
RELLUC.SEQ	C A A A A A T G A A C A A	933
RLUCVER1.SEQ	<u>G</u> A A <u>G</u> A A <u>C</u> G A <u>G</u> C A <u>G</u>	933
RLUCVER2.SEQ	<u>G</u> A A <u>G</u> A A <u>C</u> G A <u>G</u> C A <u>G</u>	933
RLUCFINL.SEQ	<u>G</u> A A <u>G</u> A A <u>C</u> G A <u>G</u> C A <u>G</u>	933

FIG. 7 (cont'd)

RELLUC.SEQ	M T S K V Y D P E Q R K R M I T G P Q W W A R C K Q M N V L D S F I N Y Y D S E	118
RLUCVER1.SEQ	M A S K V Y D P E Q R K R M I T G P Q W W A R C K Q M N V L D S F I N Y Y D S E	118
RLUCVER2.SEQ	M A S K V Y D P E Q R K R M I T G P Q W W A R C K Q M N V L D S F I N Y Y D S E	118
RLUCFINL.SEQ	M A S K V Y D P E Q R K R M I T G P Q W W A R C K Q M N V L D S F I N Y Y D S E	118
RELLUC.SEQ	K H A E N A V I F L H G N A A S S Y L W R H V V P H I E P V A R C I I P D L I G	238
RLUCVER1.SEQ	K H A E N A V I F L H G N A A S S Y L W R H V V P H I E P V A R C I I P D L I G	238
RLUCVER2.SEQ	K H A E N A V I F L H G N A A S S Y L W R H V V P H I E P V A R C I I P D L I G	238
RLUCFINL.SEQ	K H A E N A V I F L H G N A A S S Y L W R H V V P H I E P V A R C I I P D L I G	238
RELLUC.SEQ	M G K S G K S G N G S Y R L L D H Y K Y L T A W F E L L N L P K K I I F V G H D	358
RLUCVER1.SEQ	M G K S G K S G N G S Y R L L D H Y K Y L T A W F E L L N L P K K I I F V G H D	358
RLUCVER2.SEQ	M G K S G K S G N G S Y R L L D H Y K Y L T A W F E L L N L P K K I I F V G H D	358
RLUCFINL.SEQ	M G K S G K S G N G S Y R L L D H Y K Y L T A W F E L L N L P K K I I F V G H D	358
RELLUC.SEQ	W G A C L A F H Y S Y E H Q D K I K A I V H A E S V V D V I E S W D E W P D I E	478
RLUCVER1.SEQ	W G A C L A F H Y S Y E H Q D K I K A I V H A E S V V D V I E S W D E W P D I E	478
RLUCVER2.SEQ	W G A C L A F H Y S Y E H Q D K I K A I V H A E S V V D V I E S W D E W P D I E	478
RLUCFINL.SEQ	W G A C L A F H Y S Y E H Q D K I K A I V H A E S V V D V I E S W D E W P D I E	478
RELLUC.SEQ	E D I A L I K S E E G E K M V L E N N F F V E T M L P S K I M R K L E P E E F A	598
RLUCVER1.SEQ	E D I A L I K S E E G E K M V L E N N F F V E T M L P S K I M R K L E P E E F A	598
RLUCVER2.SEQ	E D I A L I K S E E G E K M V L E N N F F V E T M L P S K I M R K L E P E E F A	598
RLUCFINL.SEQ	E D I A L I K S E E G E K M V L E N N F F V E T M L P S K I M R K L E P E E F A	598
RELLUC.SEQ	A Y L E P F K E K G E V R R P T L S W P R E I P L V K G G K P D V V Q I V R N Y	718
RLUCVER1.SEQ	A Y L E P F K E K G E V R R P T L S W P R E I P L V K G G K P D V V Q I V R N Y	718
RLUCVER2.SEQ	A Y L E P F K E K G E V R R P T L S W P R E I P L V K G G K P D V V Q I V R N Y	718
RLUCFINL.SEQ	A Y L E P F K E K G E V R R P T L S W P R E I P L V K G G K P D V V Q I V R N Y	718
RELLUC.SEQ	N A Y L R A S D D L P K M F I E S D P G F F S N A I V E G A K K F P N T E F V K	838
RLUCVER1.SEQ	N A Y L R A S D D L P K M F I E S D P G F F S N A I V E G A K K F P N T E F V K	838
RLUCVER2.SEQ	N A Y L R A S D D L P K M F I E S D P G F F S N A I V E G A K K F P N T E F V K	838
RLUCFINL.SEQ	N A Y L R A S D D L P K M F I E S D P G F F S N A I V E G A K K F P N T E F V K	838
RELLUC.SEQ	V K G L H F S Q E D A P D E M G K Y I K S F V E R V L K N E Q	931
RLUCVER1.SEQ	V K G L H F S Q E D A P D E M G K Y I K S F V E R V L K N E Q	931
RLUCVER2.SEQ	V K G L H F S Q E D A P D E M G K Y I K S F V E R V L K N E Q	931
RLUCFINL.SEQ	V K G L H F S Q E D A P D E M G K Y I K S F V E R V L K N E Q	931

FIG. 8

GRVER51.SEQ ATGATGAA[AC]GCGGAJAAAGAA[CGT]GAT[CTA]CGGCC[A]GAAC 40
 LUCPLYG.SEQ ATGATGAAGAGAGAGAAAAATGTTATATATGGACCCGAAC 40
 RD1561H9.SEQ ATGAT[AA]AG[CG]TGAGAAAAATGTTAT[CT]ATGG[CC]TGA[GC] 40

GRVER51.SEQ C[AC]T[GCA]TCC[AC]TGGGAAGAC[CT]CACC[CGC]TGGTGA[GT]GCT 80
 LUCPLYG.SEQ CCTACACCCCTTGGGAAGACTTAAACAGCAGGAGAAATGCT 80
 RD1561H9.SEQ C[TC]T[CAC]TCTCTTGGAGGA[ATT]TGA[CT]GCG[CGG]CGAAATGCT 80

GRVER51.SEQ CTTT[CG]AGC[AC]T[GC]GTAAACAT[AGT]CA[CT]CCTC[CA]AGC[A] 120
 LUCPLYG.SEQ CTTT[CG]AGGCCCTTCGAAACATCTCTCATTTACCGCAGGCT 120
 RD1561H9.SEQ G[T]T[TC]G[TC]G[TC]T[CT]C[CG]CAAGCA[CT]CTCTATTTG[CC]T[CA]AGC[CC] 120

GRVER51.SEQ C[CT]G[T]GGA[CG]T[CGT]GGG[AG]ACGA[GAGC]CT[CT]CCTA[CA]AAG 160
 LUCPLYG.SEQ TTAGTAGATGTGTTTGGTGACGAATCGCTTTCTCTATAAAG 160
 RD1561H9.SEQ T[GT]G[TC]GATGTG[GT]C[GG]CGA[TC]GAATC[TT]T[GAG]CTA[CA]AGG 160

GRVER51.SEQ A[AT]TTTTT[CG]AAGCTAC[TCGT]GCT[GT]TGGC[CC]AAAG[CT]CCA 200
 LUCPLYG.SEQ AGTTTTTTGAAGCTACATGCCCTCCTAGCGCAAAAGTCTCCA 200
 RD1561H9.SEQ AGTTTTTTTGA[GG]C[A]AC[CGT]C[TT]GCT[GG]C[TC]AGTCC[CT]CCA 200

GRVER51.SEQ T[AAT]TGTGG[GT]ACAA[AA]TGAA[CGAT]GTGGT[GAGCA]T[TT]GT 240
 LUCPLYG.SEQ CAATTGTGGATACAAGATGAATGATGTAGTGTGATCTGCTGC 240
 RD1561H9.SEQ CAATTGTGG[GT]ACAAAGATGA[AC]GAC[CGT]C[GT]TAGTATCTG[TT] 240

GRVER51.SEQ GCT[TC]GAGAATAA[CA][CTC]GCTTTCTTTTATCTCTGT[AA]T[CGC]TCG 280
 LUCPLYG.SEQ GCCGAGAAATAATAAAAGATTTTTTATCTCCATTATTCGAC 280
 RD1561H9.SEQ GCTGA[AA]A[CA]ATA[CCCG]T[TT]CTTCTATCTA[AGT]CA[TC]G[CG] 280

GRVER51.SEQ CTTGGTAC[AT]CGG[CG]ATGATTGT[CGC]CCTGTGAATGAA[TC] 320
 LUCPLYG.SEQ CTTGGTATATTGGTATGATTGTAGCACCTGTGTAATGAAAG 320
 RD1561H9.SEQ C[AT]TGGTATAT[CGG]TATGAT[CT]GTCGGC[TC]AGT[CA]A[GA]G 320

GRVER51.SEQ TTACATCCCAGATGA[GC]T[GT]GTAAAGGT[TA]TGGGTAT[TAGC] 360
 LUCPLYG.SEQ TTACATCCCAGATGAACCTCTGTAAAGGTATGGGTATATCG 360
 RD1561H9.SEQ TTACAT[TC]C[CGA]C[GA]A[CT]GTTGTA[AGT]CATGGGTAT[CT]CT 360

GRVER51.SEQ AAAC[TC]CAAA[TC]GTTCTTT[AC]TAC[CAAA]AACAT[CTT]GAATA 400
 LUCPLYG.SEQ AAACCAAAATAGTTTTTTGTACAAAGAACATTTTAAATA 400
 RD1561H9.SEQ AA[GC]CACA[GA]T[TC]TCTT[CA]C[CA]TAAGAA[TA]T[CT]GAA[CA] 400

GRVER51.SEQ AGGT[CT]TGGAA[AGT]C[CG]TCTC[GT]ACTAA[CTT]TCAT[CAAA]CG 440
 LUCPLYG.SEQ AGGTATTGGAGGTACAGAGCAGAACTAATTTTCATAAAAAAG 440
 RD1561H9.SEQ A[AGT]C[CT]TGGAA[AGT]C[CA]A[AGC]CG[CA]C[CA]CTT[TA]T[TA]A[GC]G 440

GRVER51.SEQ CATCAT[TA]T[TC]T[GG]ATAC[CGT]CGAAAACAT[CCAC]GGTGT 480
 LUCPLYG.SEQ GATCATCATACTTGATACTGTAGAAAACATACACGGTTGT 480
 RD1561H9.SEQ TATCATCAT[CT]T[GG]A[CA]CTGT[GG]AGAA[TA]T[TC]ACGGTTGTG[CC] 480

GRVER51.SEQ GA[GA]G[CT]C[CC]TAAC[CTT]CAT[CT]CTCGTTA[CA]GCGATGGT[TA] 520
 LUCPLYG.SEQ GAAAGTCTTCCCAATTTTATTTCTCGTTATTCGGATGGAA 520
 RD1561H9.SEQ GA[TC]T[TT]G[CC]TAATTT[CA]T[CT]CTCG[CT]ATTT[CA]GA[CGG]CA 520

GRVER51.SEQ ATAT[CGC]TA[AT]TCAAG[GC]C[CTT]GCATT[TC]GATC[AGT]CGA 560
 LUCPLYG.SEQ ATATTTGCCAATCTCAAACTTTATCTGATCATCTGTTGA 560
 RD1561H9.SEQ CA[AT]C[CG]A[AA]CTT[TA]AAC[CA]CT[CA]C[AT]TCGA[CC]CTGTG[GA] 560

FIG. 11

GRVER51.SEQ G C A A G T G G C A G C T A T T T G T G C T C C T C G G C A C C A C T G G T 600
 LUCPPLYG.SEQ G C A A G T G G C A G C T A T C T A T G T T C G T C A G G C A C T A C T G G A 600
 RD1561H9.SEQ A C A A G T T G C A G C C A T T C T G T A G C A G C G G T A C T A C T G G A 600

GRVER51.SEQ T T G C C T A A A G G T G T C A T G C A G A C T C A C C A G A A T A T C T G T G 640
 LUCPPLYG.SEQ T T A C C G A A A G G T G T A A T G C A A A C T C A C C A A A A T A T T T G T G 640
 RD1561H9.SEQ C T C C C A A A G G G A G T C A T G C A G A C C A T C A A A A C A T T T G C G 640

GRVER51.SEQ T G C G T T T G A T C C A G C C T C T C G A C C C T C G T G T G G G T A C T C A 680
 LUCPPLYG.SEQ T C C G A C T T A T A C A T G C T T T A G A C C C C A G G G C A G G A A C G C A 680
 RD1561H9.SEQ T G C G T C T G A T C C A T G C T C T C G A T C C A C G C T A C G G C A C T C A 680

GRVER51.SEQ A T T G A T C C C T G G C T G A C T G T G C T G G T G T A T C T G C C T T T C 720
 LUCPPLYG.SEQ A C T T A T T C C T G G T G T G A C A G T C T T A G T A T A T C T G C C T T T T 720
 RD1561H9.SEQ G C T G A T T T C C T G G T G T C A C C G T C T T G G T C T A C T T G C C T T T C 720

GRVER51.SEQ T T T C A C G C C T T T G G T T T C T C T A T T A C C C T G G G C T A T T T T C A 760
 LUCPPLYG.SEQ T T C C A T G C T T T G G G T T C T C T A T A A A C T T G G G A C T A C T T C A 760
 RD1561H9.SEQ T T C C A T G C T T T C G G C T T T C A T A T T A C T T T G G G T T A C T T T A 760

GRVER51.SEQ T G G T C G G C T T C T C G G T G T C A T C A T G T T T C G T C G C T T C G A C C A 800
 LUCPPLYG.SEQ T G G T G G G C T C T C G T G T T A T C A T G T T A A G A C G A T T T G A T C A 800
 RD1561H9.SEQ T G G T G G G T C G G T C T C G C G T G A T T A T G T T C C G C G C T T T G A T C A 800

GRVER51.SEQ A G A A G C C T T T C T T G A A G C C T A T T C A A G A C T A C G A G G T G C G T 840
 LUCPPLYG.SEQ A G A A G C A T T T C T A A A A G C T A T T C A G G A T T A T G A A G T T C G A 840
 RD1561H9.SEQ G G A G G C T T T C T T G A A A G C C A T C C A A G A T T A T G A A G T C C G C 840

GRVER51.SEQ T C C G T G A T C A A C G T C C C T T C A G T C A A T T T G T T C C T G A G C A 880
 LUCPPLYG.SEQ A G T G T A A T T A A C G T T C C A C C A A T A A T T G T T C T T A T C G A 880
 RD1561H9.SEQ A G T G T C A T C A A C G T G C C T A G C G T G A T C C T G T T T T G T C T A 880

GRVER51.SEQ A A T C T C C T T T G G T T G A C A A G T A T G A T C T G A G C A G C T T G C G 920
 LUCPPLYG.SEQ A A A G T C C T T T G G T T G A C A A A T A C G A T T T A T C A A G T T T A A G 920
 RD1561H9.SEQ A G A G C C C A C T C G T G G A C A A G T A C G A C T T G T C T T C A C T G C G 920

GRVER51.SEQ T G A G C T G T G C T G C G C G C T G C C C T T G C G C A A A A G A A G T 960
 LUCPPLYG.SEQ G G A A T T G T G T T G C G G T G C G G C A C C A T T A G C A A A A A G A A G T 960
 RD1561H9.SEQ T G A A T T G T G T T G C G G T G C G C T C C A C T G C G T A A G G A G G T C 960

GRVER51.SEQ G C C G A G G T G C G C T G C T A A G C G T C T G A A C C T C C C T G G G T A T C C 1000
 LUCPPLYG.SEQ G C T G A G G T T G C A G T A A A C G A T T A A A C T T G C C A G G A A T T C 1000
 RD1561H9.SEQ G G C G T G A A G T G C G C C A A A C G C T T G A A T C T T C C A G G A T T C 1000

GRVER51.SEQ G C T G C G G T T T T G G T T T G A C T G A G A G A C T T C T G C T A A C A T 1040
 LUCPPLYG.SEQ G C T G T G G A T T T G G T T T G A C A G A A T C T A C T T C A G C T A A T A T 1040
 RD1561H9.SEQ T T T G T G C T T C G C G C T C A C C G A A T C T A C A G T G C G A T T A T 1040

GRVER51.SEQ C C A T A G C T T G C G A G A C G A G T T T A A G T C T G G T A G C T G G G T 1080
 LUCPPLYG.SEQ A C A C A G T C T T G G G G A T G A A T T T A A T C A G G A T C A C T T G G A 1080
 RD1561H9.SEQ C A G A G A T T C T C T G G G G A T G A G T T T A A G A G C G C T C T T T G G C 1080

GRVER51.SEQ C G C G T G A C T C C T T A T G G C T G C A A A G A T C G C C G A C C G T G 1120
 LUCPPLYG.SEQ A G A G T T A C T C C T T T A A T G G C A G C T A A A A T A G C A G A T A G G G 1120
 RD1561H9.SEQ C G T G T C A C T C C A C T C A T G G C T G C T A A G A T C G C T G A T C G C G 1120

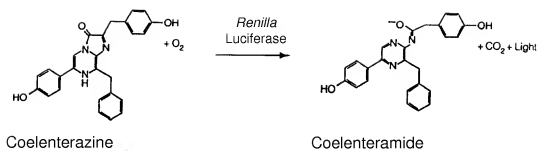
FIG. 11 (cont'd)

GRVER51.SEQ	A	G	A	C	G	G	C	A	A	A	G	C	A	T	G	G	G	C	C	A	A	A	T	C	G	G	T	G	A	A	T	1160										
LUCPPLYG.SEQ	A	A	A	C	T	G	G	T	A	A	A	G	C	A	T	T	G	G	A	C	C	A	A	T	C	A	A	G	T	T	G	G	T	G	A	A	T	1160				
RD1561H9.SEQ	A	A	C	T	G	G	T	A	A	G	G	C	C	T	T	T	G	G	C	C	G	A	A	C	C	A	A	G	T	G	G	G	A	G	C	T	1160					
GRVER51.SEQ	G	T	G	T	A	T	T	A	A	G	G	C	C	T	A	T	T	G	G	T	C	T	A	A	A	G	G	C	T	A	C	G	T	G	A	A	C	1200				
LUCPPLYG.SEQ	A	T	G	T	A	A	A	G	G	T	C	C	A	T	G	G	T	A	T	C	G	A	A	A	G	G	T	T	A	C	G	T	G	A	A	C	1200					
RD1561H9.SEQ	G	T	G	T	A	T	C	A	A	A	G	G	C	C	T	A	T	G	G	T	G	A	G	C	A	A	G	G	T	T	A	T	G	T	C	A	A	T	1200			
GRVER51.SEQ	A	A	T	G	T	G	A	G	G	C	C	A	C	T	A	A	A	A	A	G	C	A	T	T	G	A	T	G	A	T	G	A	T	G	A	T	G	G	T	1240		
LUCPPLYG.SEQ	A	A	T	G	T	A	G	A	A	G	C	T	A	C	C	A	A	A	A	A	G	C	T	A	T	T	G	A	T	G	A	T	G	A	T	G	A	T	G	G	T	1240
RD1561H9.SEQ	A	C	G	T	T	G	A	A	G	C	T	A	C	C	A	A	G	A	G	A	G	C	C	A	T	C	G	A	C	G	A	C	G	A	C	G	G	C	T	1240		
GRVER51.SEQ	G	G	C	T	C	A	T	A	G	C	G	G	C	G	A	C	T	T	C	G	G	A	C	T	C	G	G	T	A	C	T	G	A	T	G	A	G	A	1280			
LUCPPLYG.SEQ	G	G	C	T	C	A	C	T	T	G	A	G	A	C	T	T	T	G	G	A	T	A	C	T	A	T	G	A	T	G	A	G	G	A	T	G	A	G	A	1280		
RD1561H9.SEQ	G	T	T	G	C	A	T	T	C	T	G	G	T	G	A	T	T	T	T	G	G	A	T	A	T	A	C	G	A	C	G	A	A	G	A	T	G	A	T	1280		
GRVER51.SEQ	A	C	A	C	T	T	C	T	A	T	G	T	G	G	T	C	G	A	T	C	G	C	A	C	A	A	A	G	A	A	T	T	G	A	T	T	A	A	G	1320		
LUCPPLYG.SEQ	G	C	A	T	T	T	C	T	A	T	G	T	G	G	T	G	G	A	C	G	T	T	A	C	A	A	G	G	A	A	T	T	G	A	T	T	A	A	A	1320		
RD1561H9.SEQ	G	C	A	T	T	T	A	C	G	T	C	G	T	G	G	A	T	C	G	T	T	A	C	A	A	G	G	A	A	T	T	G	A	T	T	A	A	A	1320			
GRVER51.SEQ	T	A	C	A	A	G	G	C	T	C	A	A	G	T	C	G	C	A	C	A	G	C	G	A	A	C	T	G	A	A	A	A	A	A	A	A	A	1360				
LUCPPLYG.SEQ	T	A	T	A	A	G	G	C	T	C	T	C	A	G	G	T	A	G	C	A	C	T	G	C	A	G	A	A	C	T	G	A	A	A	A	A	A	A	1360			
RD1561H9.SEQ	T	A	C	A	A	G	G	G	T	A	G	C	A	G	G	T	T	G	C	A	G	C	T	G	A	C	T	G	A	G	T	T	G	A	A	G	A	A	1360			
GRVER51.SEQ	T	T	T	T	G	C	T	G	A	A	G	A	C	C	C	T	T	G	T	A	T	C	G	C	G	A	C	G	T	G	G	C	G	T	G	C	T	1400				
LUCPPLYG.SEQ	T	T	T	T	A	T	T	G	A	A	A	A	T	C	C	A	T	G	T	A	T	C	A	G	A	G	A	T	G	T	T	G	C	T	G	C	T	G	T	1400		
RD1561H9.SEQ	T	T	T	T	C	T	G	T	T	G	A	A	A	T	C	C	A	T	G	C	A	T	T	C	G	C	A	T	G	T	T	G	C	T	G	T	G	T	1400			
GRVER51.SEQ	G	G	T	A	T	C	C	C	A	G	A	C	T	T	G	A	A	G	C	T	G	G	C	G	A	G	T	T	G	C	T	A	G	C	G	C	C	1440				
LUCPPLYG.SEQ	T	G	G	T	A	T	T	C	T	G	A	T	C	T	A	G	A	A	G	C	T	G	A	A	C	T	G	C	A	C	T	T	G	C	A	T	C	T	1440			
RD1561H9.SEQ	C	G	G	C	A	T	T	C	T	G	A	T	C	T	G	A	A	G	C	T	G	A	A	C	T	G	C	A	C	T	T	C	T	G	C	T	1440					
GRVER51.SEQ	T	T	T	G	T	G	G	T	G	A	A	C	A	C	C	G	G	C	A	A	G	A	G	A	T	C	A	C	T	G	C	T	A	A	G	G	1480					
LUCPPLYG.SEQ	T	T	T	G	T	G	G	T	T	A	A	A	C	A	G	C	C	T	G	A	A	A	G	A	G	A	T	T	A	C	A	G	C	T	A	A	A	1480				
RD1561H9.SEQ	T	T	G	T	T	T	G	T	T	C	A	A	G	C	A	G	C	C	T	G	T	A	C	A	G	A	A	T	T	A	C	G	C	C	A	A	G	1480				
GRVER51.SEQ	A	G	G	T	C	T	A	C	G	A	C	T	A	T	T	T	G	G	C	G	A	G	C	G	T	G	T	C	T	C	A	C	A	C	C	A	1520					
LUCPPLYG.SEQ	A	A	G	T	A	C	G	A	T	T	A	T	C	T	T	G	C	C	A	G	A	G	G	G	T	C	T	C	C	C	A	T	A	C	A	A	A	1520				
RD1561H9.SEQ	A	A	G	T	G	T	A	T	G	A	T	T	A	C	T	T	G	C	C	A	G	A	G	A	T	T	A	C	A	G	C	C	A	T	A	A	1520					
GRVER51.SEQ	A	T	A	T	C	T	G	C	G	T	G	G	C	G	T	C	G	C	T	T	C	G	T	C	G	A	T	T	C	T	A	T	T	C	C	A	1560					
LUCPPLYG.SEQ	T	A	T	T	G	C	T	G	G	A	G	G	G	T	T	C	G	A	T	T	C	G	T	T	G	T	T	A	T	A	C	A	T	A	C	C	A	1560				
RD1561H9.SEQ	T	A	C	T	T	G	C	G	T	G	G	C	G	G	T	G	C	T	T	T	T	G	T	T	G	A	C	T	C	C	A	T	C	C	A	T	1560					
GRVER51.SEQ	C	G	C	A	A	C	G	T	T	A	C	G	G	T	A	A	G	A	T	C	A	C	T	C	G	T	A	A	A	G	A	G	T	T	S	C	T	G	A	1600		
LUCPPLYG.SEQ	A	G	A	G	A	T	G	T	T	A	C	A	G	G	T	A	A	A	A	T	T	A	C	A	A	G	A	A	G	G	A	A	C	T	C	T	G	A	1600			
RD1561H9.SEQ	C	G	T	A	A	C	G	T	A	A	C	A	G	G	C	A	A	A	A	T	T	A	C	C	G	C	A	A	G	A	G	C	T	S	T	T	G	A	1600			
GRVER51.SEQ	A	G	C	A	A	C	T	C	T	C	G	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	1626				
LUCPPLYG.SEQ	A	G	C	A	G	C	A	T	T	G	C	T	G	G	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	1629				
RD1561H9.SEQ	A	C	A	A	A	T	T	G	T	T	G	T	G	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	1626				

FIG. 11 (cont'd)

GRVER51.SEQ	MMKREKNVIY	GPEPLHPLEDLTAGEMLFR	ALRKHSHLPQA	118																															
LUCPPLYG.SEQ	MMKREKNVIY	GPEPLHPLEDLTAGEMLFR	ALRKHSHLPQA	118																															
RD1561H9.SEQ	M	KREKNVIY	GPEPLHPLEDLTAGEMLFR	ALRKHSHLPQA 118																															
GRVER51.SEQ	LVDV	V	GDESLSYKEFFEAT	V	LLAQSLHNCGYKMNDVVSIC	238																													
LUCPPLYG.SEQ	LVDV	F	GDESLSYKEFFEAT	C	LLAQSLHNCGYKMNDVVSIC	238																													
RD1561H9.SEQ	LVDV	V	GDESLSYKEFFEAT	V	LLAQSLHNCGYKMNDVVSIC	238																													
GRVER51.SEQ	AENN	T	RFFI	P	V	IAAWYIGMIVAPVNESYIPDELCKVMGIS	358																												
LUCPPLYG.SEQ	AENN	K	RFFI	P	I	IAAWYIGMIVAPVNESYIPDELCKVMGIS	358																												
RD1561H9.SEQ	AENN	T	RFFI	P	V	IAAWYIGMIVAPVNESYIPDELCKVMGIS	358																												
GRVER51.SEQ	KPQIV	F	T	TKNILNKVLEVQSR	TNFIKRII	I	LDTVENIHGC	478																											
LUCPPLYG.SEQ	KPQIV	F	C	TKNILNKVLEVQSR	TNFIKRII	I	LDTVENIHGC	478																											
RD1561H9.SEQ	KPQIV	F	T	TKNILNKVLEVQSR	TNFIKRII	I	LDTVENIHGC	478																											
GRVER51.SEQ	ESLPNFIS	RYS	SDGNIANFKPLH	F	DPVEQVAAILC	SSGTTG	598																												
LUCPPLYG.SEQ	ESLPNFIS	RYS	SDGNIANFKPLHY	DPVEQVAAILC	SSGTTG	598																													
RD1561H9.SEQ	ESLPNFIS	RYS	SDGNIANFKPLH	F	DPVEQVAAILC	SSGTTG	598																												
GRVER51.SEQ	LPKGVMQ	THQNICVRLI	HALDPR	V	GTQLIPGVT	VLVYLPF	718																												
LUCPPLYG.SEQ	LPKGVMQ	THQNICVRLI	HALDPR	A	GTQLIPGVT	VLVYLPF	718																												
RD1561H9.SEQ	LPKGVMQ	THQNICVRLI	HALDPR	V	GTQLIPGVT	VLVYLPF	718																												
GRVER51.SEQ	FHAFGFS	I	P	LGYFMVGLRVIM	F	RRRDQEAFLKAIQDYEV	838																												
LUCPPLYG.SEQ	FHAFGFS	I	N	LGYFMVGLRVIM	L	RRRDQEAFLKAIQDYEV	838																												
RD1561H9.SEQ	FHAFGF	H	I	T	LGYFMVGLRVIM	F	RRRDQEAFLKAIQDYEV	838																											
GRVER51.SEQ	SVINVP	S	V	ILFLSKSPLVDKYDL	SSLRELCCGAAPLAK	EV	958																												
LUCPPLYG.SEQ	SVINVP	P	A	ILFLSKSPLVDKYDL	SSLRELCCGAAPLAK	EV	958																												
RD1561H9.SEQ	SVINVP	S	V	ILFLSKSPLVDKYDL	SSLRELCCGAAPLAK	EV	958																												
GRVER51.SEQ	A	E	V	A	A	KRLNLP	PGIRCGFGLTESTS	ANIHS	L	R	D	E	F	K	S	G	S	L	G	1078															
LUCPPLYG.SEQ	A	E	V	A	V	KRLNLP	PGIRCGFGLTESTS	ANIHS	L	G	D	E	F	K	S	G	S	L	G	1078															
RD1561H9.SEQ	A	E	V	A	A	KRLNLP	PGIRCGFGLTESTS	A	I	I	Q	T	L	G	D	E	F	K	S	G	S	L	G	1078											
GRVER51.SEQ	RVTPLMAAKIADRET	GKALGPNQV	GEL	C	I	KGPMVSKGYV	N	1198																											
LUCPPLYG.SEQ	RVTPLMAAKIADRET	GKALGPNQV	GEL	C	V	KGPMVSKGYV	N	1198																											
RD1561H9.SEQ	RVTPLMAAKIADRET	GKALGPNQV	GEL	C	I	KGPMVSKGYV	N	1198																											
GRVER51.SEQ	NVEATKEA	I	D	D	G	W	L	H	S	G	D	F	G	Y	D	E	H	F	V	V	D	R	Y	K	E	L	I	K	1318						
LUCPPLYG.SEQ	NVEATKEA	I	D	D	G	W	L	H	S	G	D	F	G	Y	D	E	H	F	V	V	D	R	Y	K	E	L	I	K	1318						
RD1561H9.SEQ	NVEATKEA	I	D	D	G	W	L	H	S	G	D	F	G	Y	D	E	H	F	V	V	D	R	Y	K	E	L	I	K	1318						
GRVER51.SEQ	YKGSQVAPAELEE	I	L	L	K	N	P	C	I	R	D	V	A	V	G	I	P	D	L	E	A	G	E	L	P	S	A	1438							
LUCPPLYG.SEQ	YKGSQVAPAELEE	I	L	L	K	N	P	C	I	R	D	V	A	V	G	I	P	D	L	E	A	G	E	L	P	S	A	1438							
RD1561H9.SEQ	YKGSQVAPAELEE	I	L	L	K	N	P	C	I	R	D	V	A	V	G	I	P	D	L	E	A	G	E	L	P	S	A	1438							
GRVER51.SEQ	FVVKQPGKE	I	T	A	K	E	V	Y	D	L	A	E	R	V	S	H	T	K	Y	L	R	G	G	V	R	F	V	D	S	I	P	1558			
LUCPPLYG.SEQ	FVVKQPGKE	I	T	A	K	E	V	Y	D	L	A	E	R	V	S	H	T	K	Y	L	R	G	G	V	R	F	V	D	S	I	P	1558			
RD1561H9.SEQ	FVVKQPG	T	E	I	T	A	K	E	V	Y	D	L	A	E	R	V	S	H	T	K	Y	L	R	G	G	V	R	F	V	D	S	I	P	1558	
GRVER51.SEQ	RNV	T	G	K	I	T	R	K	E	L	L	K	Q	L	L	E	K	A	G	G															1624
LUCPPLYG.SEQ	RNV	T	G	K	I	T	R	K	E	L	L	K	Q	L	L	E	K	S	S	K	L														1627
RD1561H9.SEQ	RNV	T	G	K	I	T	R	K	E	L	L	K	Q	L	L	V	K	A	G	G															1624

FIG. 12

**FIG. 17B**

GRver5.1 DNA sequence of pGL3 vectors

```

ATGGTGAAACGCGAAAAGAACGTGATCTACGGCCCCAGAACCACTGCATCC 50
ACTGGAAGACCTCACCGCTGGTGAGATGCTCTTCCGAGCACTGCGTAAAC 100
ATAGTCACCTCCCTCAAGCACTCGTGGACGTCGTGGGAGACGAGAgCCTC 150
TCCTACAAGAATTTTTCGAAGCTACTGTGCTGTTGGCCCAAGCCTCCA 200
TAATTGTGGGTACAAAATGAACGATGTGGTGAGCATTGTGCTGAGAATA 250
ACACTCGCTTCTTTATCTCGTAATCGCTGCTTGGTACATCGGCATGATT 300
GTCGCCCTGTGAATGAATCTTACATCCAGATGAGCTGTGTAAGGTTAT 350
GGGTATTAGCAAACCTCAAATCGTCTTTACTACCAAAAACATCTTGAATA 400
AGGCTTGGGAAGTCCAGTCTCGTACTAAGTTCATCAAACGATCATTATT 450
CTGGATACCGTCGAAAACATCCACGGCTGTGAGAGCCTCCCTAACTTCAT 500
CTCTCGTTACAGCGATGGTAATATCGCTAATTTCAAGCCCTTGCATTTTG 550
ATCCAGTCGAGCAAGTGGCCGCTATTTGTGCTCTCCGGCACCACCTGGT 600
TTGCCTAAAGGTGCATGCAGACTCACCAGAATATCTGTGTGCGTTTGAT 650
CCACGCTCTCGACCCCTCGTGTGGGTACTCAAATTGATCCTGGCGTGACTG 700
TGCTGGTGTATCTGCTTTCTTTACGCGCTTGGTTTCTCTATTACCCGTG 750
GGCTATTTCTATGGTCGCTTGGCGTGCATCATGTTTCGTGCGTTCGACCA 800
AGAAGCCTTCTTGAAGGCTATTCAAGACTACGAGGTGCGTTCGATCA 850
ACGTCCCTTCAGTCATTTTGTCTCAGCAAATCTCCTTTGGTTGACAAAG 900
TATGATCTGAGCAGCTTGGCTGAGCTGTGCTGTGGCGCTGCTCCTTTGGC 950
CAAAGAAGTGGCCGAGGTGCTGTCTAAGCGTCTGAACCTCCCTGGTATCC 1000
GCTGCGGTTTTGGTTTGAAGTCTGAGAGCACTTCTGCTAACATCCATAGCTT 1050
CGAGACGAGTTTAAGTCTGGTAGCCTGGGTGCGGTGACTCCTCTTATGGC 1100
TGCAAGATCGCCGACCGTGAGACCGGCAAGCACTGGGCCCAAATCAAG 1150
TCGGTGAATTGTGTATTAAAGGCCCTATGGTCTCTAAAGGCTACGTGAAC 1200
AATGTGGAGGCCACTAAAGAAGCCATTGATGATGATGGCTGGCTCCATAG 1250
CGCGGACTTCGGTTACTATGATGAGGACGAACACTTCTATGTGGTCGATC 1300
GCTACAAAGAATTGATTAAAGTACAAAGGCTCTCAAGTCGCACCAAGCCGAA 1350
CTGGAAGAAATTTTGTGGAAGAACCTTGTATCCGCGACGTGGCGCTCGT 1400
GGGTATCCAGACTTGGAAGCTGGCGAGTTGCCTAGCGCCTTTGTGGTGA 1450
AACAACCCCGCAAGGAGATCACTGCTAAGGAGGTCTACGACTATTTGGCC 1500
GAGCGCGTGTCTCACACCAAATATCTGCGTGGCGGCGTCCGCTTCGTGCA 1550
TTCTATTCCACGCAACGTTACCGTAAGATCACTCGTAAAGAGTTGCTGA 1600
AGCAACTCCTCGAAAAGCTGGCGGC 1626

```

SEQ ID NO: 297**FIG. 18A**

RDver5.1 DNA sequence of pGL3 vectors

ATGTTGAAGCGTGAGAAAAATGTCATCTATGGCCCTGAGCCTCTCCATCC	50
TTTGGAGGATTTGACTGCCGGCGAAATGCTGTTTCGTGCTCTCCGCAAGC	100
ACTCTcATTGGCTCAAGCCTTGGTCGATGGTCGGCGATGAATCCTTTG	150
AGTACAAGGAGTITTTTGAGGCAACCGCTCTGCTGGCTCAGTCCCTCCA	200
CAATTGTGGCTACAAAGATGAACGACGTCGTTAGTATCTGTGCTGAAAAACA	250
ATACCCGTTTCTTCATTCCAGTCATCGCCGCATGGTATATCGGTATGATC	300
GTGGCTCCAGTCAACGAGAGCTACATTCCCGACGAACTGTGTAAGATCAT	350
GGGTATCTCTAAGCCACAGATTGTCTTCACCACTAAGAATATTCTGAACA	400
AAGTCCTGGAAGTCCAAAGCCGACCAACTTTATTAAAGCGTATCATCATC	450
TTGGACACTGTGGAGAAATATTACGGTTGCGAATCTTTGCTTAATTTCAT	500
CTCTCGTATTTCAGACGGCAACATCGCAAACTTTAAACCACTCCACTTCG	550
ACCCTGTGGAACAAGTTGCAGCCATTCTGTGTAGCAGCGGTACTACTGGA	600
CTCCCAAAGGGAGTCATGCAGACCCATCAAAACATTTGCGTGCCTGAT	650
CCATGCTCTCGATCCACGCTACGGCACTCAGCTGATTCTCGGTGTCACCG	700
TCTTGGTCTACTTGCCTTTCTTCATGCTTTCCGCTTTCATATTACTTTG	750
GGTACTTTATGGTCGGTCTCCGCGTGATTATGTTCCGCCGTTTGTATCA	800
GGAGGCTTTCTTGAAGCCATCCAAGATTATGAAGTCGCAGTGTCTATCA	850
ACGTGCCCTAGCGTGATCCTGTTTTTGTCTAAGAGCCCACTCGTGGACAAG	900
TACGACTTGTCTTCACTGCGTGAATTGTGTTGCGGTGCCGCTCCACTGGC	950
TAAGGAGGTCGCTGAAGTGGCCGCAAAACGCTTGAATCTTCCAGGGATTC	1000
GTTGTGGCTTCGGCTCAACGAATCTACCAGCGCTATTATTACAGTCTCTC	1050
CGCGATGAGITTAAGAGCGGCTCTTTGGGCCGTGTCACTCCACTCATGGC	1100
TGCTAAGATCGCTGATCGCGAACTGTTAAGGCTTTGGGCCCGAACCAAG	1150
TGGCGGAGCTGTGTATCAAAGGCCCTATGGTGAGCAAGGGTTATGTCAAT	1200
AACGTTGAAGCTACCAAGGAGGCCATCGACGACGACGGCTGGTTGCATTC	1250
TGGTGATTTTGGATATTACGACGAAGATGAGCATTTTACGTCGTGGATC	1300
GTTACAAGGAGCTGATCAAATACAAGGATAGCCAGGTTGCTCCAGCTGAG	1350
TTGGAGGAGATTCTGTGAAAAATCCATGCATTCCGCGATGTCGCTGTGTT	1400
CGGCATTCCTGATCTGGAGGCCGGCGAACTGCCTTCTGCTTTCGTGTGCA	1450
AGCAGCCTGGTAAAGAAATTACCGCCAAAGAAGTGTATGATTACCTGGCT	1500
GAACGTGTGAGCCATACTAAGTACTTGCCTGGCGGCGTGCCTTTTGTGA	1550
CTCCATCCCTCGTAACGTAAACAGGCAAAATTACCGCAAGGAGCTGTTGA	1600
AACAATTGTTGGAGAAGGCCGGCGGT	1626

SEQ ID NO: 299**FIG. 18A (cont'd)**

RD1561H9 DNA sequenc of pGL3 vectors

ATGGTAAAGCGTGAGAAAAATGTCATCTATGGCCCTGAGCCTCTCCATCC	50
TTTGGAGGATTGACTGCCGGCGAAATGCTGTTTCGTGCTCTCCGCAAGC	100
ACTCTCATTTGCCCTCAAGCCTTGGTCGATGTGGTCGGCGATGAATCTTTG	150
AGCTACAAGGAGTTTTTTGAGGCAACCGCTTGTCTGGCTCAGTCCCTCCA	200
CAATTGTGGCTACAAGATGAACGACGTCGTTAGTATCTGTGCTGAAAAACA	250
ATACCCGTTTCTTCATTCAGTCATCGCCGCATGGTATATCGGTATGATC	300
GTGGCTCCAGTCAACGAGAGCTACATTCGCCGACGAACGTGTGTAAGTCAT	350
GGGTATCTCTAAGCCAAGATTGTCTTCACCACTAAGAATATTCTGAACA	400
AAGTCTCTGGAAGTCCAAGCCGACCAACTTTATTAAAGCGTATCATCATC	450
TTGGCACTGTGGAGAATATTCACGGTTGCGAATCTTTGCCTAATTTTCAT	500
CTCTCGCTATTCAGACGGCAACATCGCAAACCTTTAAACCACTCCAATTCG	550
ACCCTGTGGAACAAGTTGCAGCCATTCTGTGTAGCAGCGTACTACTGGA	600
CTCCCAAAGGGAGTCATGCAGACCCATCAAAAACATTTGCGTGCCTCTGAT	650
CCATGCTCTCGATCCACGCTACGGCACTCAGCTGATTCTCTGGTGTCAACG	700
TCTTGGTCTACTTGCCCTTCTTCATGCTTTTCGGCTTTCATATTACTTTG	750
GGTTACTTTATGGTCGGTCTCCGCGTGATTATGTTCCGCGGTTTGTGATCA	800
GGAGGCTTTCTTGAAAGCCATCCAAGATTATGAAGTCCGAGTGTCAATCA	850
ACGTGCCTAGCGTGATCCTGTTTTTGTCTAAAGAGCCCACTCGTGGACAAG	900
TACGACTTGTCTTCACTGCGTGAATTGTGTTGCGGTGCCGCTCCACTGGC	950
TAAGGAGTTCGCTGAAGTGGCCGCGCAAACGCTTGAATCTTCCAGGGATTC	1000
GTTGTGGCTTCGCGCTCAACGAATCTACCAAGTCGATTTACGCTCGTGGATC	1050
GGGGATGAGTTTAAGAGCGGCTCTTTGGGCCGTGTCACTCCACTCATGGC	1100
TGCTAAGATCGCTGATCGCGAACTGGTAAGGCTTTGGGCCGAAACCAAG	1150
TGGCGAGCTGTGTATCAAAGGCCCTATGGTGAGCAAGGGTTATGTCAAT	1200
AACGTTGAAGCTACCAAGGAGGCCATCGACGACGACGGCTGGTTGCATTC	1250
TGGTGATTTTGGATATTACGACGAAGATGAGCATTTTACGCTCGTGGATC	1300
GTTACAAGGAGCTGATCAAATACAAGGGTAGCCAGGTTGCTCCAGCTGAG	1350
TTGGAGGAGATTCTGTTGAAAAATCCATGCATTTCGCGATGTCTCGTGTGGT	1400
CGGCATTCCTGATCTGGAGGCCGGCGAACTGCCTTCTGCTTTTCGTTGTCA	1450
AGCAGCTTGGTACAGAAATTACCGCCAAAGAAGTGTATGATTACTTGGCT	1500
GAACGTGTAGGCCATACTAAGTACTTGCCTGCGCGCGTGCCTTTTGTGTA	1550
CTCCATCCCTCGTAACGTAACAGGCAAAATTACCGCAAGGAGCTGTTGA	1600
AACAATTCTTGGTGAAGGCCGGCGGT	1626

SEQ ID NO: 301

FIG. 18A (cont'd)

GRver5.1 protein sequence of pGL3 vectors

```

MVKREKNVIYGPEPLHPLEDLTAGEMLFRALRKHSHLPQALVDVVGDESL 50
SYKEFFEATVLLAQSLHNCGYKMNDVVSICAENNTFFIPVIAAWYIGMI 100
VAPVNESYIPDELCKVMGISKQPIVFTTKNILNKVLEVQSRNTNFIKRIII 150
LDTVENIHGCESLPNFIISRYSDGNIANFKPLHFDPEQVAAILCSSLGTTG 200
LPKGVMTQHQNICVRLIHALDPRVGTQLIPGVTVLVYLPPFFHAFGFSITL 250
GYFMVGLRVIMFRFRDQEAFLKAIQDYEVRSVINVPVSILFLSKSPLVDK 300
YDLSSLRELCCGAAPLAKEVAEVAAKRLNLPGIRCGFGLTESTSANIHSL 350
RDEFKSGSLGRVTPDMAAKIADRETGKALGPNQVGELCIKGPMSKGYVN 400
NVEATKEAIDDDGWLHSGDFGYDEDEHFYVVDYRKELIKYKGSQVAPAE 450
LEEILLKNPCIRDVAVVGIPDLEAGELPSAFVVKQPGKEITAKEVYDYLA 500
ERVSHTKYLRGGVRFVDSIPRNVTKITRKELLKQLLEKAGG 542

```

SEQ ID NO: 298**RDver5.1 protein sequence of pGL3 vectors**

```

MVKREKNVIYGPEPLHPLEDLTAGEMLFRALRKHSHLPQALVDVVGDESL 50
SYKEFFEATVLLAQSLHNCGYKMNDVVSICAENNTFFIPVIAAWYIGMI 100
VAPVNESYIPDELCKVMGISKQPIVFTTKNILNKVLEVQSRNTNFIKRIII 150
LDTVENIHGCESLPNFIISRYSDGNIANFKPLHFDPEQVAAILCSSLGTTG 200
LPKGVMTQHQNICVRLIHALDPRYGTQLIPGVTVLVYLPPFFHAFGFHITL 250
GYFMVGLRVIMFRFRDQEAFLKAIQDYEVRSVINVPVSILFLSKSPLVDK 300
YDLSSLRELCCGAAPLAKEVAEVAAKRLNLPGIRCGFGLTESTSAIIQSL 350
RDEFKSGSLGRVTPDMAAKIADRETGKALGPNQVGELCIKGPMSKGYVN 400
NVEATKEAIDDDGWLHSGDFGYDEDEHFYVVDYRKELIKYKGSQVAPAE 450
LEEILLKNPCIRDVAVVGIPDLEAGELPSAFVVKQPGKEITAKEVYDYLA 500
ERVSHTKYLRGGVRFVDSIPRNVTKITRKELLKQLLEKAGG 542

```

SEQ ID NO: 300**RD1561H9 protein sequence of pGL3 vectors**

```

MVKREKNVIYGPEPLHPLEDLTAGEMLFRALRKHSHLPQALVDVVGDESL 50
SYKEFFEATVLLAQSLHNCGYKMNDVVSICAENNTFFIPVIAAWYIGMI 100
VAPVNESYIPDELCKVMGISKQPIVFTTKNILNKVLEVQSRNTNFIKRIII 150
LDTVENIHGCESLPNFIISRYSDGNIANFKPLHFDPEQVAAILCSSLGTTG 200
LPKGVMTQHQNICVRLIHALDPRYGTQLIPGVTVLVYLPPFFHAFGFHITL 250
GYFMVGLRVIMFRFRDQEAFLKAIQDYEVRSVINVPVSILFLSKSPLVDK 300
YDLSSLRELCCGAAPLAKEVAEVAAKRLNLPGIRCGFGLTESTSAIIQTL 350
GDEFKSGSLGRVTPDMAAKIADRETGKALGPNQVGELCIKGPMSKGYVN 400
NVEATKEAIDDDGWLHSGDFGYDEDEHFYVVDYRKELIKYKGSQVAPAE 450
LEEILLKNPCIRDVAVVGIPDLEAGELPSAFVVKQPGTEITAKEVYDYLA 500
ERVSHTKYLRGGVRFVDSIPRNVTKITRKELLKQLLVKAGG 542

```

SEQ ID NO: 302**FIG. 18A (cont'd)**